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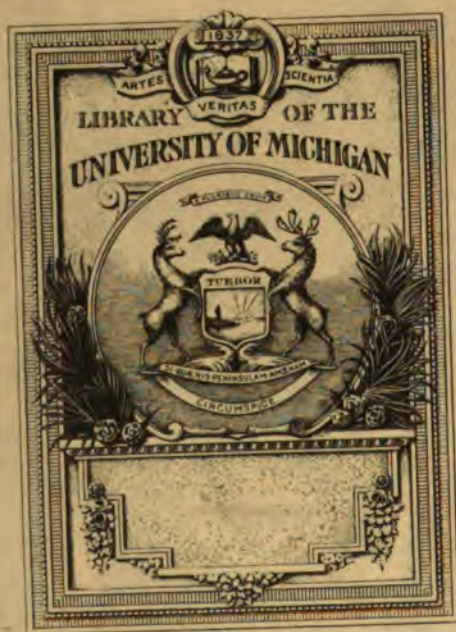
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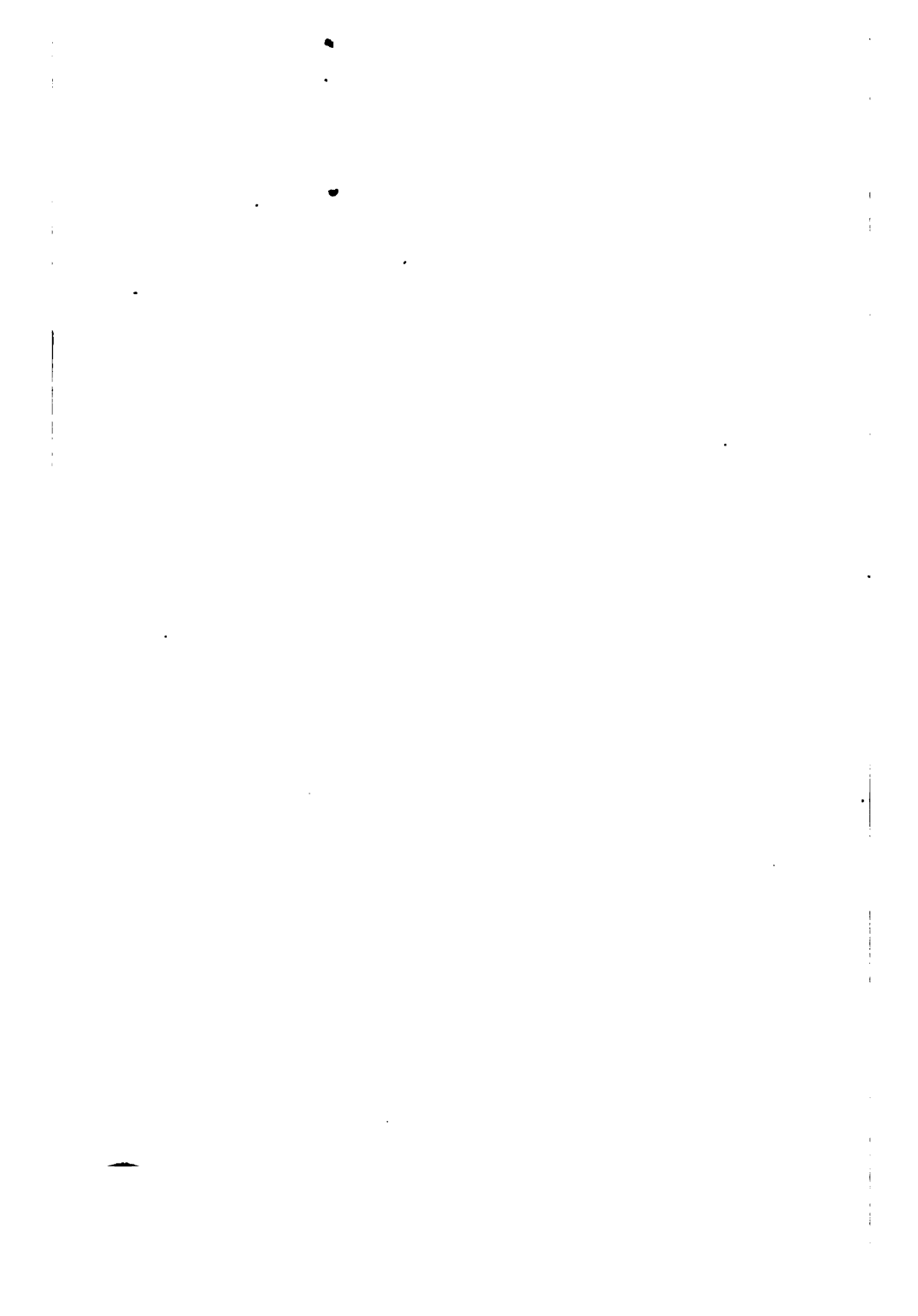


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Vol. 14

DECEMBER, 1920

No. 6

THE  
WESLEYAN UNIVERSITY  
BULLETIN



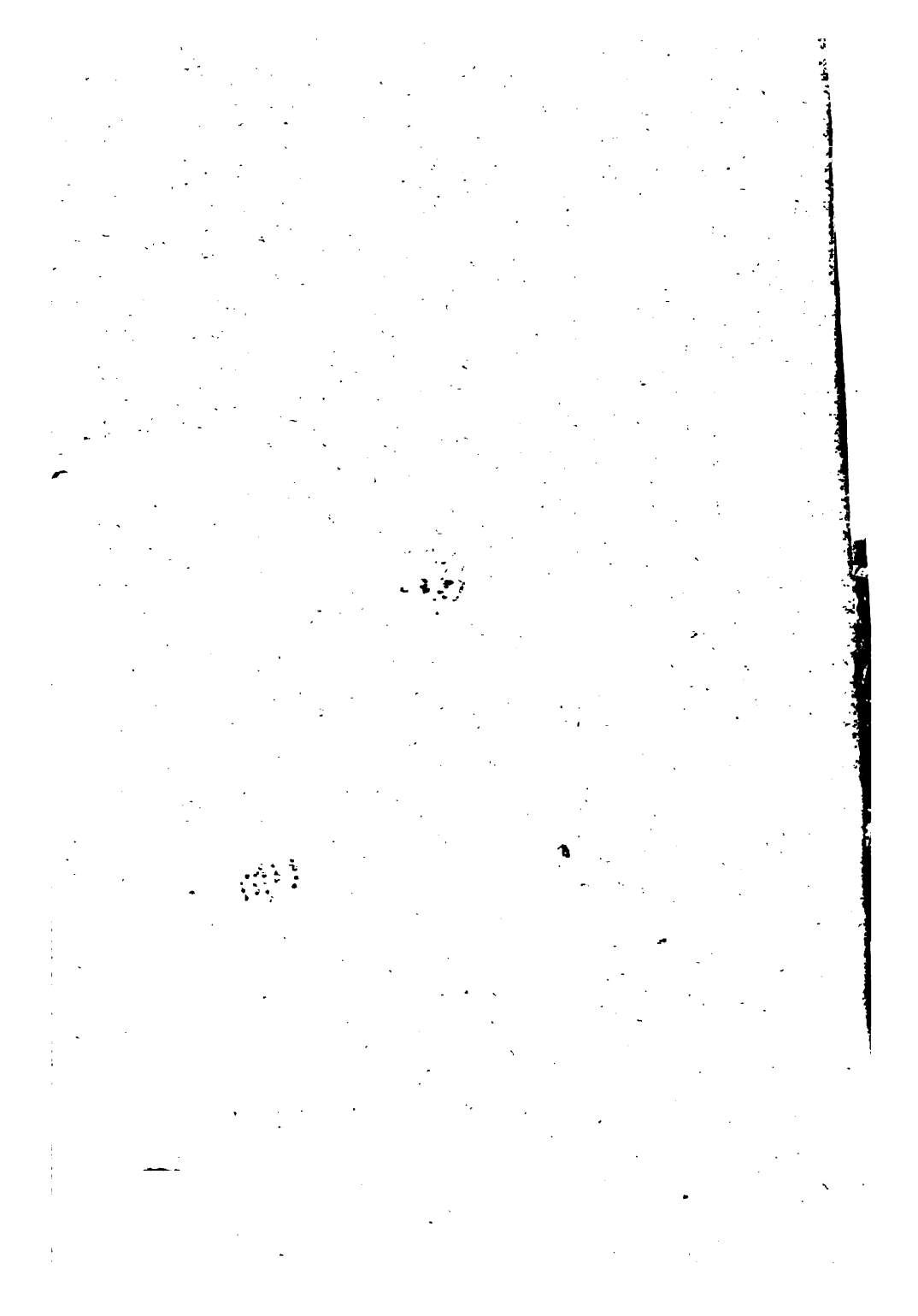
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OF

# WESLEYAN UNIVERSITY

## 1920-1921



MIDDLETOWN, CONN.  
MCMXX

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Published by the University six times a year, in May, June, July, September, November, and December. Entered as second-class mail matter, June 9, 1914, at the post-office at Middletown, Connecticut, under the Act of Congress of August 24, 1912.



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Hugh Deal Hughes, B. A., CHEMISTRY.	<i>Amsterdam, N. Y.</i>	<i>259 William St.</i>
George Raymond Larkin, B. A., ECONOMICS, HISTORY.	<i>Pittsfield, Mass.</i>	<i>40 Brainerd Ave.</i>
Horace Binney Montgomery, Jr., B. A. (Univ. of Pennsylvania), ECONOMICS.	<i>Glen Moore, Pa.</i>	<i>Berkeley Divinity School.</i>
Sidney Merritt Newhall, B. S., ECONOMICS, PSYCHOLOGY, BIOLOGY.	<i>Springfield, Mass.</i>	<i>Eclectic House.</i>



## SENIORS—CLASS OF 1921.

NAMES.	RESIDENCES.	ROOMS.
Samuel Spafford Ackerly,	<i>Brooklyn, N. Y.</i>	X ♀ Lodge.
† Clifford Reinhold Anderson,	<i>Middletown.</i>	Δ T Δ House.
† Herbert Eli Arnold,	<i>Brooklyn, N. Y.</i>	Δ Y House.
† George William Bain,	<i>Corinth, N. Y.</i>	<i>Durham Centre.</i>
† Jonathan Potteiger Batdorf,	<i>Reading, Pa.</i>	<i>Commons Club.</i>
† Charles Palmer Bateman,	<i>Somerville, N. J.</i>	Δ K E House.
† John Randolph Belcher,	<i>Washington, D. C.</i>	Y Y House.
Herman David Berlew,	<i>West Pittston, Pa.</i>	B Θ Π House.
Clifton Harold Berlinghof,	<i>Scranton, Pa.</i>	A Δ Φ House.
† John Beardmore Berrien,	<i>Montclair, N. J.</i>	<i>Eclectic House.</i>
† John Robert Bohlmann,	<i>Peekskill, N. Y.</i>	Δ K E House.
Charles Barrett Brown,	<i>Gladstone, N. J.</i>	Σ N House.
† Marshall Brown,	<i>Suffield.</i>	255 William St.
† Leonidas Hamlin Bunyan,	<i>Colchester.</i>	Γ Y House.
Robert Andrew Burdick,	<i>Brooklyn, N. Y.</i>	Y Y House.
Frank Summerfield Burgwin,	<i>Amityville, N. Y.</i>	Δ T Δ House.
† Stanley Robert Camp,	<i>Middletown.</i>	Δ T Δ House.
Edward Lawrence Christie,	<i>Haverstraw, N. Y.</i>	42 N. D.
† Robert Watkins Clarke,	<i>Rutherford, N. J.</i>	10 N. D.
† Lewis Swinnerton Combes,	<i>Amesbury, Mass.</i>	A X P House.
† John Alpaugh Conover,	<i>Gladstone, N. J.</i>	Σ N House.
† Arthur Searles Cramer,	<i>Portland.</i>	B Θ Π House.
† William Henry Cummings,	<i>Montclair, N. J.</i>	<i>Eclectic House.</i>
† Clark Smith Defandorf,	<i>Troy, N. Y.</i>	Σ N House.
† William Frank Deppen,	<i>Trevorton, Pa.</i>	A X P House.
Lavern Charles Dibble,	<i>Cobleskill, N. Y.</i>	<i>Commons Club.</i>
Harwood Burrows Dolbeare,	<i>Norwich.</i>	Y Y House.
Paul Herbert Doney,	<i>Salem, Ore.</i>	B Θ Π House.
† Fred Forest Dowlin,	<i>North Adams, Mass.</i>	Δ T Δ House.
† Charles Nathan Downs,	<i>Riverhead, N. Y.</i>	Σ N House.
† Frederick Arthur Elsey,	<i>New York, N. Y.</i>	X ♀ Lodge.
† Theodore Trail Everitt,	<i>Orange, N. J.</i>	Y Y House.
† Franklin Edward Fellows,	<i>Troy, N. Y.</i>	Δ K E House.
† August Clyde Ferger,	<i>Chattanooga, Tenn.</i>	Δ T Δ House.

NAMES.	RESIDENCES.	ROOMS.
† Henry Raymond Giere,	<i>Shrewsbury, N. J.</i>	Δ K E House.
† Robert Nelson Gordon,	<i>Mt. Vernon, N. Y.</i>	Α Δ Φ House.
† Harold Frank Graves,	<i>Springfield, Mass.</i>	Δ Υ House.
Boyd Raymond Greenwalt,	<i>Hoboken, N. J.</i>	Commons Club.
Donald Hapgood Guibord,	<i>Plattsburgh, N. Y.</i>	Eclectic House.
Jay Hanford,	<i>Mamaroneck, N. Y.</i>	333 Main St.
Howard Reynolds Harrison,	<i>Plymouth, Pa.</i>	Β Θ Π House.
† Don Lee Hartman,	<i>Erie, Pa.</i>	Β Θ Π House.
† LeRoy Frederick Heidenreich,	<i>Albany, N. Y.</i>	Α Δ Φ House.
Henry Heuer, Jr.,	<i>Philadelphia, Pa.</i>	Ψ Υ House.
† Robert Harvey Hibbard,	<i>Hartford.</i>	Σ Ν House.
† Marcellus Weed Hitchcock,	<i>Hartford.</i>	Β Θ Π House.
Benjamin Franklin Holme,	<i>Camden, N. J.</i>	Commons Club.
† Joseph Waldo Hosdowich,	<i>Albany, N. Y.</i>	Δ K E House.
† Philip Jay Howard,	<i>East Northfield, Mass.</i>	Β Θ Π House.
† Chester Thomas Hubbell, Jr.,	<i>Albany, N. Y.</i>	Ψ Υ House.
† Curtiss Sherman Johnson,	<i>Meriden.</i>	Δ Τ Δ House.
Elwood Simpson Johnson,	<i>Provincetown, Mass.</i>	Δ Τ Δ House.
† Foster Macy Johnson,	<i>Meriden.</i>	Δ Τ Δ House.
Thurston Allen Johnson,	<i>Winthrop, Mass.</i>	Α Δ Φ House.
Bernard Aloysius Kosicki,	<i>Middletown.</i>	191 William St.
† Harry Emanuel Lawson,	<i>Somerville, Mass.</i>	Δ Τ Δ House.
§ Howard Willis Lindsey,	<i>Rochelle, Ill.</i>	
† Herbert Evans Macdonald,	<i>New York, N. Y.</i>	Δ Τ Δ House.
Howard Clifford McElroy,	<i>McKeesport, Pa.</i>	Δ Υ House.
† Nils Carl Malmquist,	<i>Derby.</i>	76 N. C.
Arthur James May,	<i>Philadelphia, Pa.</i>	Γ Ψ House.
Leo Julius Meyer,	<i>Bridgeport.</i>	Eclectic House.
John Harold Morgart,	<i>Mercersburg, Pa.</i>	Α Χ Ρ House.
Paul Axford Newsom,	<i>Paterson, N. J.</i>	Σ Ν House.
Everett Lester Oldham,	<i>Central Falls, R. I.</i>	Γ Ψ House.
John Ronald Ott,	<i>Roxborough, Pa.</i>	Ψ Υ House.
† Nelson Lewis Parsons,	<i>Canaan.</i>	Ψ Υ House.
John Alanson Patten, Jr.,	<i>Chattanooga, Tenn.</i>	Eclectic House.
† Alcott Terrill Peck,	<i>Derby.</i>	Α Χ Ρ House.
† James Knickerbocker Peck,	<i>Scranton, Pa.</i>	Α Δ Φ House.

‡ On leave of absence.

NAMES.	RESIDENCES.	ROOMS.
Theodore Ferry Plimpton,	<i>Tilton, N. H.</i>	$\Delta$ K E House.
Israel Poliner,	<i>Middletown.</i>	546 Main St.
Clyde Warren Quick,	<i>Newton, N. J.</i>	$\Delta$ T $\Delta$ House.
† Everett Blakeley Raines,	<i>Fall River, Mass.</i>	B $\Theta$ $\Pi$ House.
† George Paul Rapp,	<i>Middletown.</i>	X $\Psi$ Lodge.
John George Raymer,	<i>Beaver, Pa.</i>	<i>Eclectic House.</i>
† Clesson Alden Rogers,	<i>Gloversville, N. Y.</i>	$\Sigma$ N House.
Willis Cleaves Russell,	<i>Gorham, Me.</i>	$\Delta$ Y House.
† William Henry Ryalls,	<i>Glens Falls, N. Y.</i>	$\Psi$ Y House.
Wallace Edwin Sample,	<i>Glens Falls, N. Y.</i>	$\Gamma$ $\Psi$ House.
† Bertram William Saunders,	<i>Passaic, N. J.</i>	$\Psi$ Y House.
Harleton Forman Scofield,	<i>Paterson, N. J.</i>	A $\Delta$ $\Phi$ House.
† Donald William Sherman,	<i>Saratoga Springs, N. Y.</i>	$\Sigma$ N House.
Henry Arthur Simmons,	<i>Wellsboro, Pa.</i>	Commons Club.
† Herbert Clarence Skiff,	<i>New York, N. Y.</i>	A X P House.
† Paul William Stansbury,	<i>Germanstown, Pa.</i>	$\Gamma$ $\Psi$ House.
† Harold Thornton Stearns,	<i>Wallingford.</i>	Commons Club.
Richard Timothy Steele,	<i>Hartford.</i>	B $\Theta$ $\Pi$ House.
† Roger Clark Stimson,	<i>Gorham, Me.</i>	$\Delta$ Y House.
Frank Leland Stowe,	<i>Seymour.</i>	$\Delta$ Y House.
† Theodore Cuyler Streibert,	<i>Albany, N. Y.</i>	A $\Delta$ $\Phi$ House.
† Robert Pomeroy Swift,	<i>New Britain.</i>	A $\Delta$ $\Phi$ House.
Harvey Walworth Taylor,	<i>Cornwall, N. Y.</i>	$\Delta$ T $\Delta$ House.
Everett William Thompson,	<i>Hampton, N. H.</i>	$\Psi$ Y House.
† Charles Fischer Trautwein,	<i>Newark, N. J.</i>	A X P House.
Henry Chambers Trundle,	<i>Centreville, Md.</i>	$\Psi$ Y House.
† Harold Canfield Tyson,	<i>Unadilla, N. Y.</i>	$\Delta$ T $\Delta$ House.
† Donald Prince Underhill,	<i>Boston, Mass.</i>	<i>Eclectic House.</i>
William Enos Wetzel,	<i>Trenton, N. J.</i>	$\Delta$ K E House.
Lawrence Ernest Wimbrow,	<i>Salisbury, Md.</i>	B $\Theta$ $\Pi$ House.
† Dieu Gieng Wong,	<i>Amoy, China.</i>	18 O. H.
† Frederick Burnham Woodhouse,	<i>Wethersfield.</i>	B $\Theta$ $\Pi$ House.
William Bellamy Young, Jr.,	<i>Middletown.</i>	72 High St.

## JUNIORS—CLASS OF 1922.

NAMES.	RESIDENCES.	ROOMS.
† Lyndon Travis Abbot,	<i>West Orange, N. J.</i>	B Θ Π House.
Clifford Burdett Adams,	<i>New Haven.</i>	Δ Υ House.
† David William Adams,	<i>Johnstown, N. Y.</i>	A Δ Φ House.
Frederick Everett Alger,	<i>Factoryville, Pa.</i>	IO N. D.
Harley Frank Atwood,	<i>Glens Falls, N. Y.</i>	<i>Eclectic House.</i>
† Philip Gardner Baker,	<i>Duryea, Pa.</i>	B Θ Π House.
Kennith Ravenscroft Balsley,	<i>Middletown.</i>	30 N. C.
† Stanley Hardy Beeman,	<i>Albany, N. Y.</i>	A Δ Φ House.
† Frederick Jacob Bergmann, 2d,	<i>Philadelphia, Pa.</i>	A X P House.
† Leon Alson Bradley,	<i>West Haven.</i>	B Θ Π House.
† Jesse Howard Buell,	<i>Clinton.</i>	Γ Ψ House.
† Harold Frederick Burgess,	<i>Moosup.</i>	62 N. C.
† Nelson Marigold Burroughs,	<i>Bridgeport.</i>	Γ Ψ House.
† Charles Evans Butler,	<i>Hartford.</i>	B Θ Π House.
† Harry Callendar Butterworth,	<i>Middletown.</i>	56 Fountain Ave.
† Morris Winfield Carey,	<i>Mauch Chunk, Pa.</i>	Commons Club.
† Oscar Cargill,	<i>Gorham, Me.</i>	Foss House.
Kenneth Ellsworth Carrington,	<i>Newark, N. J.</i>	A X P House.
† Manfred Amos Carter,	<i>Bangor, Me.</i>	Commons Club.
† Robert Mills Chapin,	<i>New York, N. Y.</i>	Ψ Υ House.
Arthur Moreau Clark,	<i>Jersey City, N. J.</i>	B Θ Π House.
† James Maitland Clark,	<i>Newburgh, N. Y.</i>	89 N. C.
† Donald Stagg Clinchy,	<i>East Orange, N. J.</i>	A Δ Φ House.
† Robert Emmett Connelly,	<i>Webster, Mass.</i>	Δ Υ House.
† Walter Arthur Crowell,	<i>Bryantville, Mass.</i>	Ψ Υ House.
Jasper Cropsey Dibble,	<i>Valley Stream, N. Y.</i>	259 William St.
Albert Merritt Dietterich,	<i>Buffalo, N. Y.</i>	Σ N House.
† Lawrence Howard Doolittle,	<i>New Britain.</i>	Σ N House.
Donald Clayton Dorian,	<i>New York, N. Y.</i>	Δ K E House.
† Caryl Clayton Dunavan,	<i>Plainfield, N. J.</i>	Δ T Δ House.
Leon Whitmore Ellsworth,	<i>Norwich, N. Y.</i>	Γ Ψ House.
† Walter Edward Falk,	<i>Meriden.</i>	Σ N House.
Stanbrough Fernald,	<i>Springfield, Mass.</i>	<i>Eclectic House.</i>
† Harland Gilbert Foster,	<i>Bristol.</i>	39 N. C.

NAMES.	RESIDENCES.	ROOMS.
† John Stevenson Foster,	<i>Newark, N. J.</i>	<i>Eclectic House.</i>
Dwight Clark Francis,	<i>Springfield, Mass.</i>	<i>Eclectic House.</i>
† Henry Raymond Gilbert,	<i>Bethel.</i>	<i>A X P House.</i>
† Ranald Victor Giles,	<i>Brooklyn, N. Y.</i>	<i>Van Vleck Obs.</i>
† Carlton Covil Gordon,	<i>Hazardville.</i>	<i>B Θ Π House.</i>
† Wallace Dewey Gray,	<i>Providence, R. I.</i>	<i>Δ Υ House.</i>
Herbert Gurnee,	<i>Solley, Md.</i>	<i>Γ Ψ House.</i>
† Roderick Burling Hallock,	<i>Glen Cove, N. Y.</i>	<i>17 O. H.</i>
† Frank Magee Henson,	<i>Philadelphia, Pa.</i>	<i>Ψ Υ House.</i>
Earl Wesley Hildreth,	<i>Enfield.</i>	<i>35 N. C.</i>
Charles Fowler Hill,	<i>New York, N. Y.</i>	<i>3 N. D.</i>
† Richard Cheney Hitchcock,	<i>New London.</i>	<i>95 N. C.</i>
† Keith Gilbert Holt,	<i>East Haven.</i>	<i>42 N. C.</i>
Charles Worth Howard,	<i>Mannsville, N. Y.</i>	<i>Commons Club.</i>
Carlton Fletcher Hubbard,	<i>Center Moriches, N. Y.</i>	<i>Δ Υ House.</i>
Archer Louis Hurd,	<i>Somers.</i>	<i>B Θ Π House.</i>
Irving Gibson Idler,	<i>Newark, N. J.</i>	<i>A X P House.</i>
† Raymond George Jackson,	<i>Elizabeth, N. J.</i>	<i>Ψ Υ House.</i>
Conrad Clark Johnson,	<i>Westfield, N. J.</i>	<i>18 N. C.</i>
† Charles Franklin Kniffen,	<i>Holly Oak, Del.</i>	<i>Δ T Δ House.</i>
† Carl Krenz,	<i>Middletown.</i>	<i>542 Main St.</i>
† William Alexander Kugler,	<i>Centreville, R. I.</i>	<i>Δ T Δ House.</i>
† John Stanley Lachowicz,	<i>Middletown.</i>	<i>19 Goodyear Ave.</i>
† William Bradford Lawton, Jr.,	<i>Pittsburgh, Pa.</i>	<i>Eclectic House.</i>
† Norman Robert Lee,	<i>Plainfield, N. J.</i>	<i>Σ Ν House.</i>
† John Compton Leffler,	<i>Buffalo, N. Y.</i>	<i>B Θ Π House.</i>
† Albert Franklin Lelaud,	<i>Mt. Vernon, N. Y.</i>	<i>Δ K E House.</i>
Bruce LeGrande LeSuer,	<i>Oneonta, N. Y.</i>	<i>X Ψ Lodge.</i>
† Harold Levine,	<i>Middletown.</i>	<i>49 Hubbard St.</i>
† William Corson McHenry,	<i>Somerville, N. J.</i>	<i>A X P House.</i>
Russell McInnes,	<i>Brooklyn, N. Y.</i>	<i>Eclectic House.</i>
James Bliss MacLean,	<i>Brooklyn, N. Y.</i>	<i>Δ T Δ House.</i>
† Orlando John May,	<i>Philadelphia, Pa.</i>	<i>Commons Club.</i>
† Herman George Mickelson,	<i>Bransford.</i>	<i>Commons Club.</i>
Russell Leffard Morgan,	<i>Scranton, Pa.</i>	<i>A Δ Φ House.</i>
† Charles Edward Mowry,	<i>Middletown.</i>	<i>84 Home Ave.</i>
† Alfred George Henry Mueller,	<i>Albany, N. Y.</i>	<i>Δ K E House.</i>

NAMES.	RESIDENCES.	ROOMS.
† Isaac Nassau,	Hartford. 45 Kennedy St., Hartford.	
† Walter Nathaniel Nelson,	Middletown. 25 Cooley Ave.	
† Isaac Laird Newell,	Middletown. 12 Crescent St.	
Elliot Martin Newhall,	Springfield, Mass. Eclectic House.	
Robert Edward Overhysser,	Middletown. 24 Wyllys St.	
† Robert Wade Parsons,	Elizabeth, N. J. ♀ Y House.	
† Robert Merritt Perkins,	Newark, N. J. Δ K E House.	
† Morris Louis Rakieten,	New Haven. 91 N. C.	
John Carl Rash,	Geneva, N. Y. Commons Club.	
† Hugo Emil Rausch,	Albany, N. Y. Δ K E House.	
† Frank Leslie Raynor,	Seaford, N. Y. Δ T Δ House.	
† Frederick Charles Reich,	Jersey City, N. J. Commons Club.	
† Harry Donald Richards,	Royersford, Pa. A X P House.	
† Winslow Tracy Richmond,	South Manchester. Eclectic House.	
† Carlyle Conwell Ring,	Woronoco, Mass. Γ ♀ House.	
Alexander Paris Robertson,	Glens Falls, N. Y. ♀ Y House.	
† Harold Frederick Robertson,	Philadelphia, Pa. ♀ Y House.	
† Benjamin Rosenthal,	Middletown. 220 Main St., S. Farms.	
William Duncan Russell, Jr.,	Wilkes-Barre, Pa. A Δ Φ House.	
† Robert Alexander Scarborough,	Brooklyn, N. Y. Γ ♀ House.	
† Charles Henry Schifferdecker,	Greenwich. Δ T Δ House.	
James Allen Scott,	Binghamton, N. Y. Commons Club.	
† Crosby Jordan Seybolt,	Oneonta, N. Y. X ♀ Lodge.	
† Elisha Adelbert Silverman,	East Orange, N. J. X ♀ Lodge.	
† William Leland Sitgreaves,	Peckville, Pa. Δ Y House.	
Merritt Abner Smith,	Conyngham, Pa. A X P House.	
† Earle Templer Somerville,	Warrensburg, N. Y. Commons Club.	
† Richard Buckbee Stannard,	Branford. Γ ♀ House.	
† Donald Livingston Starbuck,	White Plains, N. Y. 89 N. C.	
Frederick Bowman Stauffer,	Jersey City, N. J. 32 N. D.	
Samuel Nowell Stevens,	Eastport, Md. B Θ Π House.	
† Wilfred Sinclair Stevenson, Jr.,	Clifton Heights, Pa. East Hall.	
Charles Alexander Stewart,	Bath, Me. 18 N. C.	
† Harold Wade Streeter,	New Bedford, Mass. 27 N. C.	
† Merton Horatio Strickland,	Manchester. ♀ Y House.	
† Coley Banks Taylor,	Cannondale. 27 N. C.	
† Irwin Adolphus Thompson,	Livermore Falls, Me. Commons Club.	
Forbes Thrasher,	Brooklyn, N. Y. A Δ Φ House.	

NAMES.	RESIDENCES.	ROOMS.
Walter Ernest Todd,	<i>Buckland.</i>	A X P House.
† George Ripley Tracy,	<i>Windsor.</i>	Γ Ψ House.
Paul Franklin Vaka,	<i>Webster, Mass.</i>	Δ Υ House.
† Clifford Carney Varney,	<i>Ogunquit, Me.</i>	Δ Υ House.
Ralph Radley Vernon,	<i>Morristown, N. J.</i>	A X P House.
Ralph Wilbur Walter,	<i>Hempstead, N. Y.</i>	49 N. D.
Elbert Cook Weaver,	<i>Hartford.</i>	B Θ Π House.
Harold Clayton Whiteley,	<i>Philadelphia, Pa.</i>	Ψ Υ House.
† Stephen Culver Williams,	<i>Seymour.</i>	Γ Ψ House.
† Samuel Norman Williams,	<i>Philadelphia, Pa.</i>	Ψ Υ House.
Wayne Wakefield Womer,	<i>Elizabeth, N. J.</i>	B Θ Π House.
† Harry Thayer Woodward,	<i>Sag Harbor, N. Y.</i>	Commons Club.
† John Mortlock Woodward,	<i>Sag Harbor, N. Y.</i>	Commons Club.
John Hubert Wubben,	<i>Colorado Springs, Col.</i>	291 Wash't Ter.
† Ellwood Meridyth Young,	<i>Yonkers, N. Y.</i>	B Θ Π House.

## SOPHOMORES—CLASS OF 1923.

NAMES.	RESIDENCES.	ROOMS.
† George William Allgair,	<i>Somerville, N. J.</i>	<i>Commons Club.</i>
Russell Dean Annas,	<i>Providence, R. I.</i>	44 N. C.
James Cloyd Atkinson,	<i>Brooklyn, N. Y.</i>	Δ Υ House.
† William Edward Bagg, Jr.,	<i>Pittsfield, Mass.</i>	X Ψ Lodge.
Henry Dimmick Baldy,	<i>Mt. Airy, Pa.</i>	42 N. D.
† Frederick Wesley Best,	<i>Westfield, Mass.</i>	Γ Ψ House.
Wilbur Fraser Bolen,	<i>Plainfield, N. J.</i>	<i>Commons Club.</i>
† Joseph Hamilton Boyd, Jr.,	<i>Upper Montclair, N. J.</i>	<i>Eclectic House.</i>
† Charles Reichard Bray,	<i>East Bangor, Pa.</i>	B Θ Π House.
† John Cypert Briggs,	<i>Rochester, N. Y.</i>	Δ K E House.
† Rudolph John Bubenicek,	<i>Woodmont.</i>	<i>Commons Club.</i>
Harold Canute Buckingham,	<i>Wilkes-Barre, Pa.</i>	B Θ Π House.
Samuel Allison Budde,	<i>Higganum.</i>	17 Sumner St.
† Philip Raymond Burchard,	<i>New Canaan.</i>	Σ N House.
George Robert Burns,	<i>Helena, Mont.</i>	16 N. C.
† Albert Quigg Butler,	<i>Seymour.</i>	13 N. C.
David Walter Byrne, Jr.,	<i>Long Island City, N. Y.</i>	36 N. C.
† Carl Ferdinand Christianson,	<i>Cromwell.</i>	14 O. H.
† George Christopher Conway,	<i>Guilford.</i>	21 N. D.
† Foster Benedict Cooper,	<i>Beacon, N. Y.</i>	<i>Commons Club.</i>
David Hudson Corkran, Jr.,	<i>Fort Edward, N. Y.</i>	X Ψ Lodge.
† Norris Henry Cotton,	<i>Warren, N. H.</i>	B Θ Π House.
† William Augustus Daniels, Jr.,	<i>Danbury.</i>	<i>Commons Club.</i>
Charles Kidder Davenport,	<i>Newton, Mass.</i>	X Ψ Lodge.
† Clark Walter Davenport,	<i>Plymouth, Pa.</i>	12 O. H.
† Arthur Clayton Dodge,	<i>Gloversville, N. Y.</i>	<i>Commons Club.</i>
† Dudley Gorton Downing,	<i>Gloversville, N. Y.</i>	56 N. D.
John Ainsworth Dunn,	<i>Gardner, Mass.</i>	<i>Eclectic House.</i>
† Edward Layman Ellis,	<i>Danbury.</i>	A X P House.
Elwyn Arvon Ellis,	<i>Williamsport, Pa.</i>	A X P House.
† George Phillips Ellsworth,	<i>Norwich, N. Y.</i>	<i>Commons Club.</i>
† Richard Clinton Eustis,	<i>New York, N. Y.</i>	A Δ Φ House.
† Miles Reisner Fasnacht,	<i>Lititz, Pa.</i>	<i>Commons Club.</i>
Edwin George Fisher, Jr.,	<i>East Orange, N. J.</i>	<i>Eclectic House.</i>



NAMES.	RESIDENCES.	ROOMS.
Bardwell Hastings Flower,	<i>West Pawlet, Vt.</i>	$\Sigma$ N House.
Robert Perry Foster,	<i>Newark, N. J.</i>	<i>Eclectic House.</i>
John Robert Galvin,	<i>Hartford. 129 Talcott St., Hartford.</i>	
† William Bradford Gifford,	<i>Boston, Mass.</i>	44 N. C.
David Loomis Green,	<i>Holyoke, Mass.</i>	9 N. D.
† Alan Campbell Gregg,	<i>McKeesport, Pa.</i>	$\Delta$ Y House.
† Louis Edward Jules Gregory,	<i>Parksville, B. C., Can. Commons Club.</i>	
† Wilbur Wayne Hartshorn,	<i>Boston, Mass.</i>	A X P House.
† Willis Charles Hatfield,	<i>East Concord, N. H.</i>	$\Delta$ Y House.
† John Henry Helmken,	<i>Brooklyn, N. Y.</i>	$\Delta$ T $\Delta$ House.
† James Edward Henderson,	<i>Pelham Manor, N. Y.</i>	20 O. H.
† Halsted Hill,	<i>Hartford.</i>	$\Sigma$ N House.
† Nicholas Thompson Hooper,	<i>Danbury.</i>	46 N. C.
Raymond Coe Hughson,	<i>Oneonta, N. Y.</i>	X $\Psi$ Lodge.
† John Henry Irons, Jr.,	<i>Saratoga Springs, N. Y.</i>	56 N. D.
† Clayton Hull Jacobs,	<i>Guilford.</i>	21 N. D.
Charles Joseph Johnson,	<i>Riverside, N. J.</i>	B $\Theta$ $\Pi$ House.
Frank Augustus Johnson,	<i>Columbus, N. J.</i>	38 N. C.
† William Theodore Johnson,	<i>Middletown.</i>	69 Home Ave.
Walter Richard Kiernan,	<i>New York, N. Y.</i>	<i>Eclectic House.</i>
† Edward Olney King,	<i>East Orange, N. J.</i>	8 N. D.
† Otto John Lang,	<i>Leonia, N. J.</i>	76 N. C.
† Frederick DeLand Leete, Jr.,	<i>Indianapolis, Ind.</i>	16 N. D.
Henry Wiley Leland,	<i>Mt. Vernon, N. Y.</i>	16 N. D.
† Richard Day Leonard,	<i>Newtonville, Mass.</i>	26 N. C.
Noah Stanley Lincoln,	<i>Schenectady, N. Y.</i>	10 N. D.
James Garnet Lodge,	<i>Unionville.</i>	<i>Commons Club.</i>
† Kenneth Regnold Losey,	<i>Northport, N. Y.</i>	17 O. H.
† Frederick Francis Lovejoy, Jr.,	<i>East Norwalk.</i>	14 O. H.
† Osceola Currier McEwen,	<i>Newark, N. J.</i>	13 N. D.
† George Washington McKenzie, Jr.,	<i>Brooklyn, N. Y.</i>	X $\Psi$ Lodge.
Joseph Magnano,	<i>Middletown.</i>	40 Centre St.
Robert Cheney Mansfield,	<i>New Haven.</i>	67 N. C.
† John Weld Markham,	<i>Guilford.</i>	64 N. C.
Edwin Lawrence Martin,	<i>Johnson City, N. Y.</i>	<i>Middlefield.</i>
† Allan Howard Frazier Martindale,	<i>Farmington, Mich.</i>	$\Delta$ K E House.
† Adelbert Wilbur Meinke,	<i>Meriden.</i>	<i>Commons Club.</i>
† Horace Foster Mitchem,	<i>Elizabeth, N. J.</i>	26 N. D.

NAMES.	RESIDENCES.	ROOMS.
Joseph Layton Moore,	<i>Bishop, Md.</i>	82 N. C.
Rising Lake Morrow,	<i>West Pawlet, Vt.</i>	Σ N House.
William Dufford Moyle,	<i>New Haven.</i>	67 N. C.
† Walther Matthew Mueller,	<i>Albany, N. Y.</i>	Δ K E House.
Walton Lewis Multer,	<i>Kingston, Pa.</i>	71 N. C.
† Walter Mayor Neely,	<i>Lehman, Pa.</i>	Commons Club.
Julius Louis Neidle,	<i>Colchester.</i>	3 O. H.
† John Jacob Niemann,	<i>New York, N. Y.</i>	X † Lodge.
William Noble,	<i>Plymouth, Pa.</i>	58 N. C.
† Joseph North,	<i>Elizabeth, N. J.</i>	12 N. D.
Hermon Norton,	<i>Mt. Hermon, Mass.</i>	88 N. C.
Thomas Nunley,	<i>Stapleton, N. Y.</i>	32 N. D.
† Clifford Reichel Oviatt,	<i>New Haven.</i>	A Δ Φ House.
Samuel David Pinsker,	<i>Wallingford.</i>	23 Hubbard St.
† Samuel Davis Pinsker,	<i>Middletown.</i>	202 William St.
Lewis Hamlin Piper,	<i>Walton, N. Y.</i>	6 N. C.
† Robert Amos Plastridge,	<i>Northfield, Vt.</i>	Δ Y House.
† Delcour Stephen Potter,	<i>Glens Falls, N. Y.</i>	51 N. D.
† Stanley Hemmingway Purdy,	<i>Bridgeport.</i>	Γ † House.
James Arthur Pyne,	<i>Wilkes-Barre, Pa.</i>	57 N. C.
Walter Barton Reynolds,	<i>Elmira, N. Y.</i>	13 N. D.
† George Carl Richter,	<i>Middletown.</i>	7 Front St.
† Gordon Clark Ring,	<i>Woronoco, Mass.</i>	41 N. D.
Edwin James Roberts,	<i>Wilkes-Barre, Pa.</i>	Σ N House.
† Everett Albert Robison,	<i>Dunkirk, N. Y.</i>	† Y House.
† Victor Alexander Salloway,	<i>Maynard, Mass.</i>	A X P House.
Earl Russell Sandstrom,	<i>New Britain.</i>	X † Lodge.
Lawrence Allen Schminky,	<i>Philadelphia, Pa.</i>	20 O. H.
† John Ainsworth Scott,	<i>Albany, N. Y.</i>	X † Lodge.
Russell Simmons Scudder,	<i>Paterson, N. J.</i>	60 N. C.
† Guy Pendexter Seeley,	<i>Mt. Vernon, N. Y.</i>	X † Lodge.
† Theophilus Karnaghan Seiberling,	<i>Akron, Ohio.</i>	A Δ Φ House.
† L'Huillier Sinquette Sheaff,	<i>New York, N. Y.</i>	11 N. D.
Charles Lawrence Smith,	<i>Freeport, N. Y.</i>	11 N. C.
Donald French Smith,	<i>York Village, Me.</i>	44 N. C.
† Laurence Bradford Snow,	<i>Collinsville.</i>	26 N. C.
† Oscar Frederick Soderman,	<i>New Haven.</i>	Δ Y House.
† Laurence Francis Southwick,	<i>Meriden. 119 Curtis St., Meriden.</i>	

NAMES.	RESIDENCES.	ROOMS.
George Mathew Spence,	<i>Hastings, Pa.</i>	<i>A X P House.</i>
† Asa Bertram Steeves,	<i>Hallowell, Me.</i>	<i>Eclectic House.</i>
† Charles Bragdon Stone,	<i>Middletown.</i>	7 N. D.
† Norman Wyman Storer,	<i>Pittsburgh, Pa.</i>	4 N. D.
Arthur Eugene Sutherland, Jr.,	<i>Rochester, N. Y.</i>	<i>Eclectic House.</i>
† Jesse Ireland Taylor,	<i>Lynch, Md.</i>	94 N. C.
Roy Townsend Thawley,	<i>Wethersfield.</i>	69 N. C.
† Ralph Thomas Tyner, Jr.,	<i>New York, N. Y.</i>	<i>Δ K E House.</i>
† Marshall Lodge Umpleby,	<i>Uxbridge, Mass.</i>	<i>Commons Club.</i>
† Edward Charles Veprovsky,	<i>East Haddam.</i>	33 N. D.
† Peter Vogel,	<i>Wallingford.</i>	<i>124 College St.</i>
† Eugene Palmer Wagner,	<i>Newton Centre, Mass.</i>	<i>B Θ Π House.</i>
† Elbert Hilding Wall,	<i>Bridgeport.</i>	<i>255 William St.</i>
† Chester Herbert Walter,	<i>Lakewood, R. I.</i>	1 O. H.
Daniel Chester Warlow,	<i>Williamstown, Pa.</i>	27 N. D.
John Kellogg Westberg,	<i>Waterbury.</i>	<i>Δ T Δ House.</i>
† Edward Martin Westburg,	<i>Haycock Run, Pa.</i>	2 O. H.
† Morris Herman Wrubel,	<i>Middletown.</i>	<i>238 William St.</i>

## FRESHMEN—CLASS OF 1924.

NAMES.	RESIDENCES.	ROOMS.
Jarvis Munson Adams,	<i>New Haven.</i>	9 N. C.
William Fraser Aitken,	<i>New Haven.</i>	16 O. H.
† Raymond Augustus Allen,	<i>Moosup.</i>	23 N. D.
† Frederic Otwell Anderson,	<i>Yonkers, N. Y.</i>	79 N. C.
† Louis Ralph Arnold,	<i>Norwalk.</i>	35 N. D.
Edmond Holt Babbitt, Jr.,	<i>New York, N. Y.</i>	8, N. D.
† Robert Thompson Banister,	<i>White Plains, N. Y.</i>	29 N. D.
† Norman Herbert Berry,	<i>Newark, N. J.</i>	A X P House.
† George Harvey Bickley, Jr.,	<i>Singapore, Malaysia.</i>	53 N. D.
† George Walker Bisset,	<i>Waterbury.</i>	X & Lodge.
Willis Herbert Bowen,	<i>Nashua, N. H.</i>	3 N. C.
† Robert Fortenbaugh Bowman,	<i>Philadelphia, Pa.</i>	48 N. C.
† Herbert Henry Brandreth,	<i>Royersford, Pa.</i>	48 N. C.
† Radcliffe Wright Bristol,	<i>Meriden.</i>	3 N. C.
Anson Swan Brown,	<i>New York, N. Y.</i>	101 N. C.
Lynn Harry Brown,	<i>Sayre, Pa.</i>	59 N. D.
† Edward Gowen Budd, Jr.,	<i>Philadelphia, Pa.</i>	6 N. D.
† Douglas Holland Bullock,	<i>Cold Spring, N. J.</i>	14 N. D.
† Richard Day Burritt,	<i>Waterbury.</i>	11 O. H.
† Maurice Lester Burrows,	<i>Brooklyn, N. Y.</i>	A, N. D.
Robert William Butler,	<i>Methuen, Mass. 330 Washington St.</i>	
† Chester Platt Byrne,	<i>Long Island City, N. Y.</i>	36 N. C.
† Thomas William Cantwell,	<i>Albany, N. Y.</i>	29 N. C.
† George Leonard Carlson,	<i>Middletown. 105 High St., Farm Hill.</i>	
† Jay Edward Caster,	<i>Red Creek, N. Y.</i>	A X P House.
† Sidney Hammond Challenger,	<i>Middletown. 146 High St.</i>	
† Henry Lloyd Churchill,	<i>White Plains, N. Y.</i>	59 N. C.
† Seymour Lane Cone,	<i>Bound Brook, N. J.</i>	43 N. D.
† Edward Moroney Cook,	<i>Albany, N. Y.</i>	† T. House.
Wesley King Cramer,	<i>Middletown. 86 Lincoln St.</i>	
Edwin Arthur Crauston, Jr.,	<i>Pittsfield, Mass.</i>	24 N. D.
† Donald Hendrick Culver,	<i>Chicopee Falls, Mass.</i>	35 N. D.
† Frank Slade Danzola,	<i>Vineland, N. J.</i>	2 O. H.

NAMES.	RESIDENCES.	ROOMS.
† Henry Shenk Davis,	<i>Erie, Pa.</i>	74 N. C.
Malvin Edward Davis,	<i>Noxen, Pa.</i>	21 N. C.
† Curtis Hazen Deming,	<i>White Plains, N. Y.</i>	29 N. D.
† James Henry Denman,	<i>Russell, Mass.</i>	46 N. D.
Robert Runyon Diefendorf,	<i>East Orange, N. J.</i>	15 N. D.
† Langdon Cross Dodge,	<i>Waterbury.</i>	13 N. D.
† Norman Everett Draper,	<i>Lawrence, Mass.</i>	25 N. D.
† Irving Wilson Dudley,	<i>Guilford.</i>	D, N. D.
Bernard Blakenian Eddy,	<i>Avon.</i>	B, N. D.
Richard Hadley Edwards, Jr.,	<i>Brookline, Mass.</i>	34 N. D.
† Seymour Whiting Ely,	<i>Yonkers, N. Y.</i>	31 N. D.
† George Washington Emerson,	<i>East Orange, N. J.</i>	71 N. C.
Frank Shuster Flowers,	<i>Paulsboro, N. J.</i>	A X P House.
Frank Archembault Fortescue,	<i>Mt. Airy, Pa.</i>	54 N. D.
† Victor Leonard Fox,	<i>Brooklyn, N. Y.</i>	19 O. H.
† Homer Hamilton Freeman,	<i>Flint, Mich.</i>	71 Crescent St.
Richard Whitfield Freure,	<i>Brooklyn, N. Y.</i>	92 N. C.
† Alfred Kepner Fricke,	<i>Swarthmore, Pa.</i>	22 N. D.
John Emory Fricke,	<i>Swarthmore, Pa.</i>	6 N. D.
Fredric Worthen Frost, Jr.,	<i>New York, N. Y.</i>	¥ Y House.
† Franklin Pierce Frye,	<i>Enfield, N. H.</i>	Commons Club.
Spence Mayell German,	<i>Middletown.</i>	144 Broad St.
† John Edmund Gibbs,	<i>Cranford, N. J.</i>	Δ K E House.
† Albert Grevirson Glading,	<i>Philadelphia, Pa.</i>	3 N. D.
† Paul Beach Godard,	<i>Hartford.</i>	Δ K E House.
† Theodore Fredric Goldthorpe,	<i>Somersville.</i>	36 N. D.
† Everett Wallace Graham,	<i>Springfield, Mass.</i>	29 N. C.
† Austin West Gridley,	<i>Prince Bay, N. Y.</i>	190 High St.
† Elmer George Grunau,	<i>Rochester, N. Y.</i>	98 N. C.
† Claude Robert Halford,	<i>Pittsfield, Mass.</i>	55 N. D.
† Chester Danes Hannan,	<i>Madison, N. J.</i>	48 N. D.
† Samuel Jerome Hardy, Jr.,	<i>Scranton, Pa.</i>	21 N. C.
Charles Stanley Harris,	<i>Canandaigua, N. Y.</i>	7 O. H.
Richard Pearson Hatfield,	<i>Scotch Plains, N. J.</i>	18 N. C.
Warren Clark Heidel,	<i>Middletown.</i>	136 High St.
Frank Beers Henderson,	<i>Detroit, Mich.</i>	A Δ Φ House.
† Warren Kingsbury Hill,	<i>Morristown, Tenn.</i>	Eclectic House.
Edward Barton Hills,	<i>Mill Hall, Pa.</i>	444 High St.

NAMES.	RESIDENCES.	ROOMS.
Lawrence Britton Hillyer,	<i>West New Brighton, N. Y.</i>	59 N. C.
Charles Newman Hogle,	<i>South Glens Falls, N. Y.</i>	Σ N House.
Everett James Holley,	<i>Walton, N. Y.</i>	Commons Club.
† James Henry Horsley,	<i>Waterbury, Y. M. C. A., Main St.</i>	
† George Moudy Houston, Jr.,	<i>Fraser, Col.</i>	6 N. C.
Ernest Edward Howarth,	<i>Guilford.</i>	D, N. D.
Lewis Spring Hoyt,	<i>Watseka, Ill.</i>	15 N. D.
† Philip Hollister Hubbard,	<i>Glastonbury.</i>	87 N. C.
† William Wendell Hunting,	<i>Albany, N. Y.</i>	14 N. D.
† Frank Avery Ineson,	<i>Waterbury.</i>	8 N. C.
† Mylon Cecil Jacobs,	<i>Skowhegan, Me.</i>	445 High St.
† Henry Johnson James,	<i>Provincetown, Mass.</i>	15 O. H.
John Joseph Jennings, Jr.,	<i>Newark, N. J.</i>	A X P House.
Dayton Lewis Jones,	<i>Saratoga Springs, N. Y.</i>	23 N. D.
† Henry Lawrence Jones,	<i>Wilkes-Barre, Pa.</i>	44 N. D.
Donald Allen Keenan,	<i>Dorchester, Mass.</i>	4 N. D.
† Charles Augustine Kellogg,	<i>Hudson Falls, N. Y.</i>	80 N. C.
† William Henry Kelly, Jr.,	<i>Albany, N. Y.</i>	83 N. C.
† Charles Wesley Ketler,	<i>Westwood, N. J.</i>	2 N. D.
† Landrum Milton Knight,	<i>Medford Hillside, Mass.</i>	46 N. D.
† Charles Elliott Knoke,	<i>New York, N. Y.</i>	X ♀ Lodge.
Edwin Blackwell Knowles, Jr.,	<i>Germantown, Pa.</i>	79 N. C.
Leland Ellsworth LaGanke,	<i>East Cleveland, Ohio.</i>	86 N. C.
† William John Laramy,	<i>Easton, Pa.</i>	85 N. C.
† Harry Ifill Lauer,	<i>Germantown, Pa.</i>	6 N. D.
Francis Allan Lee,	<i>Oneonta, N. Y.</i>	A, N. D.
Charles McLane Lester,	<i>Montclair, N. J.</i>	5 N. D.
† Samuel Benajah Link,	<i>Stamford.</i>	X ♀ Lodge.
† Frederick Earle Lord,	<i>Warehouse Point.</i>	36 N. D.
† Norvin George McCadam,	<i>Heuvelton, N. Y.</i>	B Θ Π House.
Vivian Curts McCollom,	<i>Paterson, N. J.</i>	B Θ Π House.
† John MacDonald,	<i>Bergenfield, N. J.</i>	255 William St.
† J. Frank McDonald, Jr.,	<i>Brooklyn, N. Y.</i>	44 N. D.
† Edward Chapman McEachran,	<i>Glens Falls, N. Y.</i>	12 N. D.
† Raymond McInnes,	<i>Brooklyn, N. Y.</i>	30 N. D.
† Alfred Crane McKenzie,	<i>Brooklyn, N. Y.</i>	55 N. D.
† Allan Donald MacKillop,	<i>Reading, Mass.</i>	101 N. C.
Robert Dykes McLaren,	<i>Phoenicia, N. Y.</i>	51 N. C.

NAMES.	RESIDENCES.	ROOMS.
† Thomas Norman Machemer,	<i>Royersford, Pa.</i>	48 N. C.
† George John Mack,	<i>Cranford, N. J.</i>	24 N. C.
John Hendy Maddaford,	<i>Honesdale, Pa.</i>	21 N. C.
† Gustave Daniel Magnus,	<i>New York, N. Y.</i>	1 N. D.
† Wilbur Ezra Mansfield,	<i>Danbury.</i>	33 N. D.
† Paul Marcus,	<i>New Rochelle, N. Y. Commons Club.</i>	
Edgar Black Mathews,	<i>Jersey City, N. J. 28 Brainerd Ave.</i>	
† John Abercrombie Merritt, Jr.,	<i>Pensacola, Fla.</i>	51 N. D.
† Clarence Tomlinson Merwin,	<i>Milford.</i>	C, N. D.
Walter Dubois Miles,	<i>Mt. Vernon, N. Y.</i>	X * Lodge.
Waldo Burnett Miller,	<i>Waltham, Mass.</i>	16 O. H.
Allison Hoyt Mitchell,	<i>Taunton, Mass.</i>	7 N. C.
† Francis Keiter Moll,	<i>Pottsville, Pa.</i>	99 N. C.
† Fred Whitby Montgomery,	<i>Westfield, N. J.</i>	X * Lodge.
† Dwight Charles Moon,	<i>Carbondale, Pa.</i>	26 N. D.
† George Washington More, Jr.,	<i>New York, N. Y.</i>	67 N. C.
Charles Lewis Murdock,	<i>New Haven.</i>	23 N. C.
† Charles Francis Nettleship, Jr.,	<i>Newark, N. J.</i>	19 O. H.
Ernest Dressel North, 2nd,	<i>Upper Montclair, N. J.</i>	45 N. D.
† Carl Walter Olsen,	<i>Elmsford, N. Y.</i>	1 N. D.
Harold Erasmus Oviatt,	<i>New Haven.</i>	32 N. C.
Davis Pardoll,	<i>New Haven. 259 William St.</i>	
Richard Gordon Peters,	<i>Manchester.</i>	77 N. C.
Bertram Hottenroth Plint,	<i>Winston-Salem, N. C.</i>	C, N. D.
† Edgar Reeve,	<i>New York, N. Y.</i>	55 N. D.
† Robert Bertram Rex,	<i>St. Petersburg, Fla.</i>	48 N. D.
† Harold Sheldon Rogers,	<i>Waterbury.</i>	C, N. D.
† Lucius Smith Rowe,	<i>West Haven. Commons Club.</i>	
† Floyd Clark Rule,	<i>Meriden. 53 Cook Ave., Meriden.</i>	
† Melville Keith Rumrill,	<i>Longmeadow, Mass.</i>	86 N. C.
† Harold Sanderson,	<i>North Abington, Mass.</i>	45 N. D.
† Frank Joseph Satriano,	<i>Hartford.</i>	24 N. D.
† Rexford Nichols Saxton,	<i>Uxbridge, Mass.</i>	9 N. C.
† Royall Scott,	<i>Maplewood, N. J.</i>	31 N. D.
† Edwin Palmer Scriggins,	<i>East Orange, N. J.</i>	71 N. C.
† Raymond Dumont Scudder,	<i>Honolulu, T. H.</i>	47 N. D.
† Clarence Leonard Smalley,	<i>Gladstone, N. J.</i>	Σ N House.
† Calvin Sidney Smith,	<i>Middletown. 51 Park Place.</i>	

NAMES.	RESIDENCES.	ROOMS.
Monroe William Smith,	<i>North Andover, Mass.</i>	<i>38 Burr Ave.</i>
† William Alexander Smith,	<i>Nyack, N. Y.</i>	56 N. C.
† Malcolm Drake Spinning,	<i>Bloomfield, N. J.</i>	13 O. H.
† Julian Kingsley Stevens,	<i>West Hartford.</i>	15 N. C.
† William Roseberry Stocker,	<i>South Philadelphia, Pa.</i>	47 N. D.
† Philip John Stomberg,	<i>Middletown.</i>	<i>275 William St.</i>
Francis Cowles Strickland,	<i>Manchester.</i>	77 N. C.
† Donald Balch Summers,	<i>Maplewood, N. J.</i>	11 O. H.
† Zenas Monroe Sykes,	<i>Glen Ridge, N. J.</i>	56 N. D.
Rollin Tarleton,	<i>Brooklyn, N. Y.</i>	30 N. D.
† Warren Gregory Taylor,	<i>Cornwall, N. Y.</i>	11 N. C.
† Harold Eben Terry,	<i>Waterbury.</i>	45 N. D.
Evan Russell Thomas,	<i>Brockton, Mass.</i>	43 N. D.
George Ross Thomas,	<i>Philadelphia, Pa.</i>	53 N. D.
† John Cranwill Thompson,	<i>Greenwich.</i>	54 N. D.
William Vandervoort Tripp, Jr.,	<i>Brookline, Mass.</i>	34 N. D.
† Howard Robert Tryon,	<i>Berlin, N. Y.</i>	2 N. D.
† Harold Evans Ulland,	<i>Cincinnati, Ohio.</i>	32 N. C.
† Clifford Ellerson VanBuren,	<i>Slingerlands, N. Y.</i>	11 N. C.
Felix Walkes,	<i>Hillsdale, N. Y.</i>	10 O. H.
James Joseph Walsh,	<i>Meriden. 375 Centre St., Meriden.</i>	
† Mead Walworth,	<i>New Rochelle, N. Y.</i>	19 O. H.
Stuart Gallagher Webb,	<i>Meriden. 43 Kensington Ave., Meriden.</i>	
† Holly Scofield Weed,	<i>White Plains, N. Y.</i>	2 N. D.
Cutler DeLong West,	<i>Glens Falls, N. Y.</i>	73 N. C.
† Clarence Oliver Wheeler,	<i>Hammondsport, N. Y.</i>	15 O. H.
† Henry Hunter Wheeler, Jr.,	<i>Ocean Grove, N. J.</i>	47 N. D.
† Paul Ormonde Whitfield,	<i>Newark, N. J.</i>	13 O. H.
Francis Daniel Wiener,	<i>New York, N. Y.</i>	11 N. D.
Edwin Whitmore Wilkinson,	<i>Brooklyn, N. Y.</i>	50 N. C.
† John Allin Williams,	<i>Middletown.</i>	<i>35 Silver St.</i>
† Carl Otto Winter,	<i>Hartford.</i>	<i>Δ K E House.</i>
† William Watson Woodford,	<i>Hartford.</i>	D, N. D.
† Robert Harold Wrubel,	<i>Middletown.</i>	<i>21 Pearl St.</i>
† David Yale,	<i>Glens Falls, N. Y.</i>	51 N. D.
† John Charles Zimmermann, Jr.,	<i>Brooklyn, N. Y.</i>	14 N. D.



## SPECIAL STUDENTS.

NAMES.	RESIDENCES.	ROOMS.
Harry Gerald Berglund,	<i>Farstarp, Sweden.</i>	<i>Γ ♣ House.</i>
Samuel Shaw Boswell,	<i>Philadelphia, Pa.</i>	<i>22 N. D.</i>
Louis William Bruenmer,	<i>New Britain. Y. M. C. A., Main St.</i>	
George Clark,	<i>Lynn, Mass. Berkeley Div. School.</i>	
Carlos Bent Ellis, Jr.,	<i>Springfield, Mass.</i>	<i>X ♣ Lodge.</i>
Ralph Vernet Farrel,	<i>New Britain.</i>	<i>135 S. Main St.</i>
James Stanley Howie,	<i>Ulster, Pa. 394 Main St., Portland.</i>	
Abner Saul Levison,	<i>Middletown.</i>	<i>41 Hotchkiss St.</i>
Leonel Edgar William Mitchell,	<i>Bethel. Berkeley Div. School.</i>	
George Wells Moody,	<i>East Northfield, Mass.</i>	<i>50 N. D.</i>
Charles William Yerkes,	<i>East Orange, N. J.</i>	<i>83 N. C.</i>



## CLASSIFICATION BY RESIDENCE.

### UNITED STATES.

Connecticut, - - -	147	Michigan, - - -	3
New York, - - -	147	Illinois, - - -	2
New Jersey, - - -	76	Colorado, - - -	2
Pennsylvania, - - -	73	Florida, - - -	2
Massachusetts, - - -	55	Delaware, - - -	1
Maine, - - -	10	District of Columbia, -	1
New Hampshire, - - -	7	Hawaii, - - -	1
Maryland, - - -	6	Montana, - - -	1
Rhode Island, - - -	5	Indiana, - - -	1
Vermont, - - -	3	North Carolina, - - -	1
Ohio, - - -	3	Oregon, - - -	1
Tennessee, - - -	3		

### FOREIGN COUNTRIES.

Japan, - - -	1	Sweden, - - -	1
China, - - -	1	Malaysia, - - -	1
Canada, - - -	1		

Total, - - - - - 556

## GENERAL STATEMENT.

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**Courses of Study.**—The College presents to its undergraduates the option of three parallel courses of study, each extending through four years, and leading respectively to the degrees of Bachelor of Arts, Bachelor of Philosophy, and Bachelor of Science. Students in each of the courses are required to take English in the Freshman year, and physical education in each of the first three years. Candidates for the B. A. degree must take a three-hour course in either Latin or Greek, and two three-hour courses in either German or French, if not presented for admission, unless the student takes both Latin and Greek. Candidates for the Ph. B. degree must take two three-hour courses in both German and French, if not presented for admission; a three-hour course each in logic and psychology, in history, and in economics; and a three-hour course in mathematics, if not presented for admission. Candidates for the B. S. degree must take two three-hour courses in both German and French, if not presented for admission, a three-hour course in mathematics, and a three-hour course in in either physics or chemistry. The remainder of the work for the first two years must be distributed among certain departments of study, in accordance with various regulations which are intended to secure generalization. For the last two years the student must take nine hours of a major study, around which shall be arranged nine other hours of work, thus forming a concentration group. The remaining work of the last two years is elective.

**Special Courses.**—Students over twenty-one years of age who do not desire to complete either of the foregoing courses may receive instruction in such studies as they may select, provided they prove themselves, upon examination, qualified to pursue them with advantage. It should, however, be understood that this provision is intended for the benefit, not of those students

who are incompetent to take one of the regular courses, but of those who have already obtained a preliminary education so thorough as to enable them to pursue with advantage extended courses of study in particular departments. Such special students will be expected to attend all exercises assigned them, and will be subject to all the general rules of the college.

**Graduate Studies.**—Extended instruction is given to those who wish to pursue graduate courses of study in any of the departments. These courses are intended for those who do not desire to become candidates for the Master's degree, as well as for those who apply for admission to candidacy for such degree. The work of such students, whether candidates for a degree or not, is under the direction of the Committee on Graduate Instruction. The work of a graduate student may consist of undergraduate courses which he has not already completed, or work outside the curriculum assigned by his instructors, or both.

## REQUIREMENTS FOR ADMISSION.

For admission without condition to the B. A. course the candidate must secure credit for  $14\frac{1}{2}$  units, a unit representing a year's work in a secondary school with four or five periods a week, and constituting approximately a quarter of a full year's work. The requirement for admission to the Ph. B. or the B.S. course is 15 units. Not more than four units of credit will be allowed in any subject.

**B. A. DEGREE.**—Candidates for the B. A. degree must present English, 3 units, Elementary Algebra,  $1\frac{1}{2}$  or 2 units, Plane Geometry, 1 unit, Ancient History, 1 unit, and either Latin, 4 units, or Greek, 3 units; making a total of  $9\frac{1}{2}$  to 11 units. The remaining units to make up a total of  $14\frac{1}{2}$  may be selected from any of those specified below.

**PH. B. or B. S. DEGREE.**—Candidates for the Ph. B. or B. S. degree must present English, 3 units, Elementary Algebra,  $1\frac{1}{2}$  or 2 units, Plane Geometry, 1 unit, and either four units of foreign languages, or three units of a modern language; making a total of  $8\frac{1}{2}$  to 10 units. The remaining units to make up a total of 15 may be selected from any of those specified below.

### SCALE OF VALUES.

	Units.
English, 4 years. - - - - -	3
Latin, 2 years, - - - - -	2
3rd year, - - - - -	1
4th year, - - - - -	1
Greek, 2 years, - - - - -	2
3rd year, - - - - -	1
German—Elementary, 2 years, - - -	2
Intermediate, 3rd year, - - -	1
† French—Elementary, 2 years, - - -	2
Intermediate, 3rd year, - - -	1

† Spanish is accepted as a substitute for French.

	Units.
History—Ancient History, - - - -	I
Mediaeval and Modern History, - ½ or I *	
English History, - - - -	½ or I *
American History, - - - -	½ or I *
Modern History, - - - -	I
Mathematics—Algebra to Quadratics, - - -	I
Quadratics and beyond, - - - ½ or I *	
Plane Geometry, - - - -	I
Solid Geometry, - - - -	½
Advanced Algebra, - - - -	½
Plane Trigonometry, - - - -	½
Physics, theoretical and practical, - - -	I
Chemistry, theoretical and practical, - - -	I
Physical Geography, - - - -	½ or I *
Biology, - - - -	½ or I *

## REQUIREMENTS IN DETAIL.

### ENGLISH.

NOTE. The requirement in English will be somewhat changed, beginning in 1923. A pamphlet stating the new requirements may be obtained from the Dean.

The study of English in school has two main objects, which should be considered of equal importance: (1) command of correct and clear English, spoken and written; (2) ability to read with accuracy, intelligence, and appreciation, and the development of the habit of reading good literature with enjoyment.

### GRAMMAR AND COMPOSITION.

The first object requires instruction in grammar and composition. English grammar should ordinarily be reviewed in the secondary school; and correct spelling and grammatical accuracy should be rigorously exacted in connection with all written work. The principles of English composition governing punctuation, the use of words, sentences, and paragraphs should be thoroughly mastered; and practice

\* Depending on the length of the course.

in composition, oral as well as written, should extend throughout the secondary school period. Written exercises may well comprise letter-writing, narration, description, and easy exposition and argument. It is advisable that subjects for this work be taken from the student's personal experience, general knowledge, and studies other than English, as well as from his reading in literature. Finally, special instruction in language and composition should be accompanied by concerted effort of teachers in all branches to cultivate in the student the habit of using good English in his recitations and various exercises, whether oral or written.

#### LITERATURE.

The second object is sought by means of the reading and study of a number of books, from which may be framed a progressive course in literature. The student should be trained in reading aloud and be encouraged to commit to memory notable passages both in verse and in prose. As an aid to literary appreciation, he is further advised to acquaint himself with the most important facts in the lives of the authors whose works he reads and with their place in literary history. He should read the books carefully, but his attention should not be so fixed upon details that he fails to appreciate the main purpose and charm of what he reads.

A few of these books should be read with special care, greater stress being laid upon form and style, the exact meaning of words and phrases, and the understanding of allusions.

#### EXAMINATION.

Candidates will have the option of taking either of two examinations; (1) a "Comprehensive" examination; (2) a "Restricted" examination, based in part on a prescribed list of books.

However accurate in subject-matter, no paper will be considered satisfactory if seriously defective in punctuation, spelling, or other essentials of good usage.

Each examination will be divided into two parts, one of which will be on grammar and composition, and the other on literature.



## GRAMMAR AND COMPOSITION.

## COMPREHENSIVE AND RESTRICTED EXAMINATIONS.

In grammar and composition, the candidate may be asked specific questions upon the practical essentials of these studies, such as the relation of the various parts of a sentence to one another, and those requirements of good usage which one should know in distinction from current errors. The main test in composition will consist of one or more essays, developing a theme through several paragraphs; the subjects will be drawn from the books read, from the candidate's other studies, and from his personal knowledge and experience quite apart from reading. For this purpose the examiner will provide several subjects, perhaps eight or ten, from which the candidate may make his own selections. He will not be expected to write more than four hundred words an hour.

## LITERATURE.

## COMPREHENSIVE EXAMINATION.

The purpose of this examination is to enable the candidate to show that he has read, understood, and appreciated a sufficient amount of English literature. The paper will include some questions that cannot be answered except by candidates who are able to apply what they have learned to passages of literature which they have not read before. Suggestions for books to be read in preparation for this examination will be found in a list which may be obtained from the Dean.

## RESTRICTED EXAMINATION.

This examination will include:

A. Questions designed to test such knowledge and appreciation of literature as may be gained by an intelligent reading of the books given in list A below.

B. A test on the books in list B below. This will consist of questions upon their content, form, and structure, and upon the meaning of such words, phrases, and allusions as may be necessary to an understanding of the works and an appreciation of their salient qualities of style. General questions may also be asked concerning the lives of the authors, their other works, and the periods of literary history to which they belong.

Every paper in which passages from the prescribed reading are set for translation will contain also one or more passages for translation at sight; and candidates must deal satisfactorily with both these parts of the paper, or they will not be given credit for either part.

The papers set by the College Entrance Examination Board, corresponding to the above requirements, are Latin 4 and 5.

3. Grammar and Composition. The examinations in grammar and composition will demand thorough knowledge of all regular inflections, all common irregular forms, and the ordinary syntax and vocabulary of the prose authors read in school, with ability to use this knowledge in writing simple Latin prose. The words, constructions, and range of ideas called for in the examinations in composition will be such as are common in the reading of the year, or years, covered by the particular examination.

The papers set by the College Entrance Examination Board, corresponding to the above requirements, are Latin 1 and 2.

In the case of candidates who desire credit for *two years'* work in Latin, the required reading is not less *in amount* than Caesar, Gallic War, I.-IV., and should be selected from the following: Caesar (Gallic War and Civil War) and Nepos (Lives). The test is on ability to read at sight, and no part of the reading is prescribed for examination. The corresponding paper of the College Entrance Examination Board is Latin 3. For *three years'* credit, the required reading is not less *in amount* than Caesar, Gallic War, I.-IV., and Cicero, the orations against Catiline, for the Manilian Law, and for Archias; this reading should be selected from Caesar (Gallic War and Civil War) and Nepos (Lives), Cicero (orations, letters, and De Senectute) and Sallust (Catiline and Jugurthine War). Cicero's orations for the Manilian Law and for Archias are prescribed for examination, in addition to the translation at sight. The corresponding paper of the College Entrance Examination Board is Latin 4. For this may be substituted, if desired, the examination in fourth-year Latin, Vergil and Translation of Poetry at sight (Latin 5).

Certificates for two years of Latin must state that the candidate has had systematic practice, and has exhibited satisfactory proficiency, in reading at sight Latin of the average difficulty

of Caesar; certificates for three years must vouch for similar practice and proficiency in reading at sight Latin of the average difficulty of either Cicero's orations or Vergil's Aeneid; and certificates for four years must vouch for such practice and proficiency in reading at sight Latin of the average difficulty of both Cicero's orations and Vergil's Aeneid.

#### GREEK.

1. Greek grammar, including prosody. The following textbooks are recommended: Hadley-Allen's, Goodwin's, or Babbitt's.

2. Xenophon,—Anabasis, books I.-IV.

3. Homer,—Iliad, books I.-III.

4. Translation at sight of one or more passages from Xenophon.

5. Translation into Greek of easy narrative passages based on the required books of the Anabasis.

To meet the full requirement in Greek, candidates must pass the following examinations of the College Entrance Examination Board: Greek *a i*, *a ii*, *b*, *c*, *g*.

#### GERMAN.

**ELEMENTARY** (counting as two units).—Such a knowledge of the language is required as may be obtained by the reading of at least 300 pages, part of which should be read at sight. It is recommended that there be sufficient aural and oral practice to enable the student to write simple German prose from dictation and to read the language aloud with a correct and intelligible pronunciation. The ability to answer simple questions in German is also highly important. The examination consists of the translation at sight into English of easy passages of German, elementary grammatical questions, and the translation of simple English sentences into German. To meet this requirement two years' work will generally be necessary.

**INTERMEDIATE.**—The requirement includes the reading of at least 300 additional pages of German (not more than half of which should be fiction), and regular practice in writing German. Further practice in speaking German is recommended, sufficient to enable the student to understand

simple spoken German, and to express simple ideas in the language. At least one additional year of study will be necessary to meet this requirement.

### FRENCH.

**ELEMENTARY** (counting as two units).—Such a knowledge of the language is required as may be obtained by the reading of at least 400 pages, part of which should be read at sight. The examination consists of the translation at sight into English of easy passages of French, elementary grammatical questions, and the translation of simple English sentences into French. To meet this requirement two years' work will generally be necessary.

**INTERMEDIATE.**—The requirement includes the reading of not less than 600 additional pages of French (including at least two works of a dramatic character), and regular practice in writing and speaking French. At least one additional year of study will be necessary to meet this requirement.

### HISTORY.

1. Ancient History to the death of Charlemagne (814).
2. Mediaeval and Modern European History from the death of Charlemagne (814) to the present time.
3. Modern History from about 1660 to the present time.
4. English History.
5. American History.
6. American History and Civil Government.

Courses 1, 2, 4, and 6 are outlined in *The Study of History in Schools: Report to the American Historical Association by the Committee of Seven* (1899), and with more detail in *A History Syllabus for Secondary Schools . . . by a Special Committee of the New England History Teachers' Association* (1904), and in *Syllabus for Secondary Schools, 1910*, published by the University of the State of New York. These six courses are identical with those scheduled for examination by the College Entrance Examination Board.

In each of the above courses the following requirements must be met:

1. One year of historical work, wherein the study is given five times per week, or two years of historical work, wherein the study is given three times per week.

2. Such general knowledge of the whole course as may be acquired from the study of an accurate text-book, amounting to not less than 500 pages.

3. A fuller knowledge derived from suitable collateral reading, in books of a less elementary nature, amounting to at least 500 pages.

4. Comparisons between historical characters, periods, and events, and in general the power to combine in orderly fashion the results of reading, and to exercise judgment as well as memory.

5. Geographical knowledge, tested by the location of places, movements, and territorial changes on an outline map, by physical features wherever possible, as well as by political features.

Schools having the certificate privilege must certify only those courses in history actually pursued in the high school, and must omit any courses taken in the grammar school, or merely passed on examination, or not complying with the above requirements.\*

The Regents' diplomas and supplementary pass cards of the University of the State of New York for the *five*-hour examinations will be received as covering the first, fourth, and sixth of the above groups, and for the three hour examinations in *both* Modern History I. and Modern History II. as covering the second of the above groups.† Similar credentials covering Courses B (Modern History) and C (American History) outlined in the Regents' *Syllabus* of 1920 will be received as equivalent to the third and sixth of the above groups.

\* In case of schools entitled to the certificate privilege, where any of the courses in history are such that they do not meet the above requirements, the teacher should give the student a detailed statement of the courses taken and of his grades, which statement will be considered in connection with such examination as may be deemed necessary to determine the amount of credit to be allowed. In no case will account be taken of a course in Greek History which does not extend at least to the death of Alexander (B. C. 323), or of a course in Roman History which does not extend at least to the death of Marcus Aurelius (A. D. 180). No account will be taken of any course of less than five periods for a half-year, or three periods for a year.

† No credit will be allowed for the *three*-hour examination in Ancient History. Temporarily, the three-hour examinations in the other subjects will be credited for a half-unit. No credit is given for Elementary United States History and Civics, or Civics, or Economics, or for Course A (Ancient and Mediaeval History) as outlined in the 1920 *Syllabus*.

Candidates for the B.A. degree must present Ancient History, the first of the above groups, and may, in addition, present not to exceed three of the other groups. Candidates for the B. S. or Ph. B. degree may present not to exceed four of the above groups.

## MATHEMATICS.

### 1. ELEMENTARY ALGEBRA.

(a) Algebra to Quadratics. The four fundamental operations for rational algebraic expressions. Factoring, determination of highest common factor and lowest common multiple by factoring. Fractions, including complex fractions, and ratio and proportion. Linear equations, both numerical and literal, containing one or more unknown quantities. Problems depending on linear equations. Radicals, including the extraction of the square root of polynomials and of numbers. Exponents, including the fractional and negative.

(b) Quadratics and beyond. Quadratic equations, both numerical and literal. Simple cases of equations with one or more unknown quantities, that can be solved by the methods of linear or quadratic equations. Problems depending on quadratic equations. The binomial theorem for positive integral exponents. The formulas for the  $n$ th term and the sum of the terms of arithmetical and geometric progressions, with applications.

### 2. PLANE GEOMETRY.

The usual theorems and constructions of good text-books, including the general properties of plane rectilinear figures; the circle and the measurement of angles; similar polygons; areas; regular polygons, and the measurement of the circle. The solution of numerous original exercises, including loci problems. Applications to the mensuration of lines and plane surfaces.

### 3. SOLID GEOMETRY.

The usual theorems and constructions of good text-books, including the relations of planes and lines in space; the properties and measurement of prisms, pyramids, cylinders, and cones; the sphere and the spherical triangle. The solution of numerous original exercises, including loci problems. Applications to the mensuration of surfaces and solids.

## 4. ADVANCED ALGEBRA.

Permutations and combinations, limited to simple cases. Complex numbers, with graphical representation of sums and differences. Determinants, chiefly of the second, third, and fourth orders, including the use of minors and the solution of linear equations. Numerical equations of higher degree, and so much of the theory of equations, with graphical methods, as is necessary for their treatment, including Descartes' rule of signs and Horner's method, but not Sturm's functions or multiple roots.

## 5. PLANE TRIGONOMETRY.

Definitions and relations of the six trigonometric functions as ratios; circular measurement of angles. Proofs of principal formulas, in particular for the sine, cosine, and tangent of the sum and the difference of two angles, of the double angle and the half angle, the product expressions for the sum or the difference of two sines or of two cosines, etc.; the transformation of trigonometric expressions by means of these formulas. Solution of trigonometric equations of a simple character. Theory and use of logarithms (without the introduction of work involving infinite series). The solution of right and oblique triangles, and practical applications.

## PHYSICS.

The course of instruction should include:

(1) The careful study of a standard text-book, for the purpose of obtaining a connected and comprehensive view of the subject.

(2) Lecture table demonstrations, mainly qualitative, illustrating important facts and phenomena and their practical applications.

(3) Individual laboratory work, consisting of experiments requiring at least the time of thirty double periods. The experiments performed by each student should number at least 30. They should be chiefly quantitative, and so chosen as to give a wide range of observation and practice. They should be neatly recorded in a suitable note-book, *indexed, and certified by the instructor*. This book should be deposited with the examiner when the candidate presents himself for examination.

Students entering on certificate are not required to show their note-books.

The above requirements are intended to be identical with those of the College Entrance Examination Board, as set forth in their Document No. 93. Teachers of physics are advised to consult this document for a valuable syllabus of topics and list of experiments.\*

### CHEMISTRY.

The requirements for admission in chemistry may be summarized as follows:

(1) Individual laboratory work, comprising at least forty experiments. The candidate who is examined in chemistry for admission to college must present his original note-book containing a record in his own words of the experiments, and of his observations and conclusions in connection with them. The note-book should include *an index of the experiments performed, and must be certified by the instructor*. It should be deposited with the examiner when the candidate presents himself for examination. Students entering on certificate are not required to show their note-books.

(2) Instruction by lecture table demonstrations, covering the more important facts and principles of chemistry.

(3) The thorough study of at least one standard text-book, for the acquisition of a comprehensive and connected view of the subject.

These requirements are intended to be identical with those of the College Entrance Examination Board. Teachers who desire to meet them should consult Document No. 93 of the Board.\*

### PHYSICAL GEOGRAPHY.

In physical geography, such a knowledge of the subject is required as may be gained from the study of the text-book of any one of the following authors: Salisbury, Tarr, Davis, Gilbert and Brigham, Hinman, Dryer, Hopkins, Geikie. Certificates in physical geography will not be accepted without

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\* Address College Entrance Examination Board, 431 W. 117th St., New York, N. Y. The price of the document is ten cents.



examination, with credit of one half-unit, unless one of the text-books above mentioned has been used, and the time devoted to the study has been at least the equivalent of four exercises a week for a half-year. Certificates will not be accepted without examination, with credit of one unit, unless one of the text-books above mentioned has been used, supplemented by laboratory work, and the time devoted to the study has been at least the equivalent of four exercises a week for a year. The laboratory note-book, properly certified by the instructor, must be deposited with the examiner when the candidate presents himself for examination. Students entering on certificate are not required to show their note-books.

#### BIOLOGY.

Credit will be given in biology for either one-half unit or for one unit, according to the amount of time the student has given to the study. To obtain a credit of one unit, the student must have given to the study the equivalent of four or five hours a week for a year. The candidate must present his original note-book containing a record of his drawings and observations on the work of the laboratory. The note-book must be certified by the instructor. Credit will be allowed for work in either botany or zoölogy, any of the modern text-books in these subjects being recognized as satisfactory. If the student desires credit for a unit in botany he is expected to have a knowledge of both structural and morphological botany; and to have a practical familiarity with the method of analyzing flowers and using analytical keys. In zoölogy a more thorough comprehension of the structure and classification of animals is expected if a unit credit is given than if only a half unit. In case a student has had an extended course in physiology, this may be accepted in place of botany.

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#### SPECIAL COURSES.

Special students, not candidates for a degree, may be admitted, upon passing such examinations as the Faculty shall in each case prescribe. (See also page 38.)

## GENERAL REGULATIONS CONCERNING ADMISSION.

**ADVANCED STANDING.**—All candidates for advanced standing must satisfy the Faculty of their proficiency in the preparatory studies, the required studies already pursued by the classes they propose to enter, and the proper quota of elective studies, or studies recognized as equivalents therefor. A certificate of standing in another college is not accepted as evidence of such proficiency, without such further inquiry or examination as may be necessary in the judgment of the respective instructors. No student is admitted from another college unless his standing in scholarship is at least as high as that required in Wesleyan University for promotion from class to class.

**PRELIMINARY EXAMINATIONS.**—Preliminary examinations in any of the requirements for admission may be taken a year or more before entering college, and a candidate will receive credit for any subjects thus passed in advance.

**DATE AND PLACE OF EXAMINATIONS.**—Examinations for admission are held twice each year, in June and in September. The June examinations are those of the College Entrance Examination Board, and are conducted under the following regulations.

In June, 1921, there will be separate blank forms for the "application for examination" and "certificate of recommendation." The former should be addressed to the College Entrance Examination Board, 431 West 117 Street, New York, N. Y., the latter to the Chairman of the Committee on Admission of the university, college, or scientific school that the candidate wishes to enter. Both forms may be obtained from the Secretary of the College Entrance Examination Board upon request by mail.

Provided that the application reach the College Entrance Examination Board not later than the date specified below, the examination fee will be \$6.00 if the candidate is to be examined in the United States or Canada, \$20.00 if the candidate is to be examined outside of the United States or Canada. The fee should be transmitted by postal order, express order, or draft on New York, should accompany the application, and should be payable to the College Entrance Examination Board.

Applications and fees of candidates who wish to be examined outside of the United States or Canada must reach the Secretary of the Board at least six weeks in advance of the examinations, that is, on or before May 9, 1921.

Applications and fees of candidates who wish to be examined at points in the United States west of the Mississippi River or in Canada must be received at least four weeks in advance of the examinations, that is, on or before May 23, 1921.

Applications and fees of candidates who wish to be examined at points in the United States east of or on the Mississippi River must be received at least three weeks in advance of the examinations, that is, on or before May 30, 1921.

When the candidate has failed to obtain the required blank form of application for examination, the usual examination fee will be accepted if the fee arrive not later than the specified date accompanied by a memorandum containing the name and address of the candidate, the examination center at which he wishes to present himself, and a list of all subjects in which he may have occasion to take the Board's examinations.

Applications received later than the dates named will be accepted only upon payment of \$6.00 in addition to the usual fee.

A list of the places at which the examinations are to be held by the Board in June, 1921, will be published about March 1. Requests that the examinations be held at particular points, to receive proper consideration, should be transmitted to the Secretary of the Board not later than February 1.

The examinations in September will be conducted by the college, and no fees will be charged. They will be held only in Middletown. The dates of the examinations in 1921 will be September 16, 17, and 19.

**ADMISSION BY CERTIFICATE.**—Certificates covering the foregoing requirements for admission to college are received from certain schools of good standing, which have been approved by the Faculty. A certificate will not be received unless it covers decidedly the major part of the requirements for admission.

No certificate will be received from any school in New England which has not been approved by the New England College Entrance Certificate Board, of which this college is

a member. The Secretary of the Board is Dean Frank W. Nicolson, of Wesleyan University, Middletown, Conn., to whom applications from New England schools for the certificate privilege should be addressed. Such applications must reach the Secretary not later than April first, if approval is desired for the next academic year.

The academic diploma in classical or technical subjects, issued by the Regents of the University of the State of New York, and their college entrance diploma in arts, science, or engineering, together with pass cards or advanced diplomas supplementary to the above will be received in lieu of examination in such of the subjects required for admission as they cover. Regents' certificates, and pass cards without diplomas, will not be accepted.

Certificates from preparatory schools and Regents' diplomas are never accepted in lieu of examination for advanced standing.

Students entering by certificate are considered as on trial until the completion of the mid-year examinations. A student admitted to college on certificate, who is dismissed during his Freshman year on account of inability to keep up with his class, must take examinations in all subjects required for admission, in case he desires to return to college.

Detailed information concerning admission by certificate may be obtained on application to the Dean.

**ADMISSION OF WOMEN.**—Women were first admitted to the University in 1872. The Trustees voted, February 26, 1909, that no women should be admitted in any class later than that entering in 1909. Women may be admitted, however, as graduate students.

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Satisfactory evidence of good moral character will be required in the case of all candidates for admission; and certificates of honorable dismissal will be required from those who have been members of other colleges.

## COURSES OF INSTRUCTION.

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For regulations concerning selection of studies, see page 113.

Bracketed courses are not given this year, but will, in most cases, be given next year.

The figures <sup>1</sup> and <sup>2</sup> following the number of a course indicate respectively that the course is offered for the first or the second half-year.

The Roman numerals in parentheses following each course indicate the examination group to which it is assigned. For table of groups, see pages 110-112.

The place of meeting of each course is indicated by means of the following abbreviations: F. H.=Fisk Hall; J. H.=Judd Hall; O. H.=Observatory Hall; S. C.=South College; S. L.=Scott Laboratory of Physics; CHEM. LAB., BIOL. LAB.=Chemical, Biological Laboratory.

An asterisk prefixed to the number of a course indicates that it can be elected only with the previous approval of the instructor; such approval must be *in writing* and must be handed in by the student *along with his list of electives*.

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## LATIN.

PROFESSORS HARRINGTON, NICOLSON, AND †HEWITT.

Of the following courses in Latin, Course I is given every year, the remaining courses usually in alternate years only, the bracketed courses being omitted in 1920-21. Either Course I in Latin or Course I in Greek is required of all candidates for the degree of B. A. Courses II-VI are elective for those who have taken Course I. But Course VI may by special permission be elected by those who are taking Course I. Courses VII-XIV are intended primarily for those who have taken at least Course I and two of Courses II-V. But Courses VIII and XIII may by special permission of the instructor be elected by those who have taken only Course I, and students of marked ability in the reading of Latin, who are taking one of Courses II-V, may be admitted to certain of the other courses at the same time by special permission of the instructor, to whom application should in each case be made. Courses XII and XV do not presuppose a knowledge of Latin; Course XII is elective for Juniors, and Course XV for Sophomores.

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† On leave of absence second half-year.

I SELECTIONS FROM ROMAN HISTORIANS (*first half-year*). HORACE,—Selections from the Odes and Epodes (*second half-year*). SECTION 1, *Mon., Wed., Fri., at 11*; SECTION 2, *Tu., Th., Sat., at 11*. 31 F. H. PROFESSORS HARRINGTON, NICOLSON, and HEWITT. (X)

[II<sup>1</sup> CICERO,—Selected letters, to give a more intimate acquaintance with the history of Rome during the last two decades of the republic, and to compare colloquial with formal Latin. *Three times a week (first half-year)*. PROFESSOR HARRINGTON.]

[III<sup>2</sup> ROMAN COMEDY,—Selected plays of Plautus and Terence. *Three times a week (second half-year)*.]

IV<sup>1</sup> HORACE, — Satires and Epistles, to illustrate the social and literary standards of Rome at the beginning of the Empire. *Tu., Th., Sat., at 10 (first half-year)*. 37 F. H. PROFESSOR HARRINGTON. (IX)

V<sup>2</sup> PLINY THE YOUNGER,—Selected letters, to illustrate especially the state of Roman society at the close of the first century after Christ. *Tu., Th., Sat., at 10 (second half-year)*. 37 F. H. PROFESSOR HARRINGTON. (IX)

[VI LATIN PROSE COMPOSITION. In this course the elementary principles of Latin style are studied and considerable amounts of English prose (dealing with subjects both ancient and modern) are translated into Latin. *Once a week*. PROFESSOR NICOLSON.]

VII RAPID READING. The aim in this course is to read large amounts of comparatively easy Latin, with a view to acquiring facility in the use of the language. The selections for the first half-year are from poetry (Vergil, Plautus, Terence); in the second half-year from prose (Caesar, Suetonius, Gellius). A considerable part of the reading is done outside of class, and tested by written recitations. *Mon., Fri., at 11*. PROFESSOR NICOLSON. (IV)

VIII ROMAN LITERATURE. A historical and critical survey of Roman literature from the third century B. C. to the fifth century A. D., given by means of lectures, a text-book

dealing with the general subject, illustrative class-room readings in Latin and in English translations, and collateral reading. This course is designed primarily for students who desire a wider general acquaintance with the literature of the Romans and its relation to other literatures, without special emphasis upon its distinctly philological features. *Tu., Th., Sat., at 9.* 31 F. H. PROFESSOR HARRINGTON. (VIII)

[IX ROMAN ELEGIAC POETRY. The origin and development of the elegiac form. Selections from Catullus, Tibullus, Propertius, and Ovid. Practice in original research. Seminar methods are employed. *Three times a week.* PROFESSOR HARRINGTON.]

[X ROMAN SATIRE. From its beginnings through the Golden Age. Selections from Ennius, Lucilius, Varro, Horace, Persius, Juvenal, Petronius, Martial, and Apuleius; the Apocolocyntosis of Seneca; lectures on the earliest forms of the novel. *Twice a week.* PROFESSOR NICOLSON.]

XI ROMAN PHILOSOPHY. Lucretius (selections); Cicero (selections from the *Academica*, *De Officiis*, *Tusculanae Disputationes*, *De Finibus*, *De Natura Deorum*); Seneca (selected essays and epistles); lectures on the development of Roman philosophy. *Mon., Wed., Fri., at 8.* 30 F. H. PROFESSOR HARRINGTON. (I)

[XII<sup>2</sup> ROMAN CIVILIZATION. Lectures and assigned reading on the public and private life of the Romans, with special emphasis upon the influence of Roman civilization on modern life, and with various parallels between the political and social tendencies of Rome and those of the present day. *Three times a week (second half-year).* PROFESSOR HARRINGTON.]

Course XII is elective for Juniors. Knowledge of Latin is not required.

XIII<sup>1</sup> HISTORICAL LATIN GRAMMAR. Lectures on the historical development of Latin grammar, as regards both forms and syntax, with illustrative readings in inscriptions and in early Roman literature. *Tu., Th., Sat., at 8 (first half-year).* 32 F. H. PROFESSOR HARRINGTON. (VII)

**XIV<sup>2</sup> MEDIAEVAL LATIN LITERATURE.** Lectures introductory to the literature written in the universal language of the ecclesiastical and learned European world from the fifth century to the seventeenth century. Illustrative readings from some of the most interesting types of prose and poetry, including history, satirical poetry, the epic, the lyric, the drama, the epistle, the novel. *Tu., Th., Sat., at 8 (second half-year).* 32 F. H. PROFESSOR HARRINGTON. (VII)

**[XV ROMAN ART.** Illustrated lectures, with assigned collateral reading, involving the preparation of notebooks, and occasional written tests. The course is designed to set forth the development and achievements of the Romans in some of the most important fields of art, including architecture, relief (historical, mythical, and ideal), portrait sculpture, painting, ornamentation, mosaic, plate, gems, and cameos. *Once a week.* PROFESSOR HARRINGTON.]

Course XV is elective for Sophomores. Knowledge of Latin is not required.

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## GREEK.

PROFESSORS HEIDEL AND † HEWITT.

**A BEGINNERS' COURSE.** Grammar and exercises; XENOPHON,—Anabasis. *Mon., Wed., Fri., at 1; Tu., at 2.* 37 F. H. PROFESSORS HEIDEL and HEWITT. (V)

Credit for Course A will be given only to students who attain in it a grade of C or above and subsequently pass Course B and Course I in Greek.

**B<sup>1</sup> HOMER,**—Odyssey. *Tu., Th., at 8 (first half-year).* 37 F. H. PROFESSOR HEWITT. (VII)

Course B is intended for students who have taken Course A or its equivalent, but have read little or no Homer.

**I PLATO,**—Euthyphro, Apology, and Crito; XENOPHON,—Selections from the Memorabilia; LYSIAS,—Selected Orationes. *Mon., Wed., Fri., at 8.* 37 F. H. PROFESSOR HEIDEL. (I)

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† On leave of absence second half-year.



Course I is intended for students who have completed the entrance requirements in Greek, or Courses A and B. It may, however, be taken by those who have completed only Course A, or its equivalent, provided that they have attained a grade of C or above, and are taking Course B.

Course I in Greek, or Course I in Latin, is required of candidates for the B. A. degree.

II<sup>1</sup> EURIPIDES, — *Alcestis*; ARISTOPHANES, — *Clouds*; LUCIAN, — *Selections*. *Mon., Wed., Fri., at 8 (first half-year)*.  
32 F. H. PROFESSOR HEWITT. (I)

Course II is elective for those who have taken Course I.

III<sup>1</sup> GREEK PROSE COMPOSITION. *Tu., Th., at 9 (first half-year)*. 37 F. H. PROFESSOR HEIDEL. (VIII)

Course III is elective for those who take, or have taken, Course II.

[IV HISTORY OF GREEK LITERATURE. Recitations, lectures, and collateral reading are supplemented by a more intensive study of selected portions of the literature. Especial stress is laid upon the relation between the Greek and English literatures, with respect both to literary form and to subject matter. Knowledge of Greek is not required. *Twice a week*. PROFESSOR HEWITT.]

Course IV is elective for Juniors, or for Sophomores who are taking Course II.

Courses III and IV are given in alternate years, Course IV being omitted in 1920-21.

[V<sup>1</sup> PLATO, — *Gorgias*; DEMOSTHENES, — *The Oration on the Crown*. Collateral study of Greek rhetoric and oratory. *Three times a week (first half-year)*. PROFESSOR HEIDEL.]

[VI<sup>2</sup> THE GREEK LYRIC POETS, — including selections from Pindar and Bacchylides. *Three times a week (second half-year)*. PROFESSOR HEIDEL.]

Courses V and VI are elective for those who have taken Course II. They are omitted in 1920-21.

VII AÆSCHYLUS,—Prometheus Bound. SOPHOCLES,—Oedipus the King, and Antigone. Lectures and collateral reading on the Greek theatre (*first half-year*). EURIPIDES,—Iphigenia among the Taurians, and Cyclops. ARISTOPHANES,—Frogs. Collateral reading on the Greek drama (*second half-year*). *Mon., Wed., Fri., at 11.* 37 F. H. PROFESSOR HEIDEL. (IV)

Course VII is elective for those who have taken Course II.

VIII<sup>1</sup> NEW TESTAMENT IN GREEK. *Tu., Th., at 11 (first half-year).* 37 F. H. PROFESSOR HEWITT. (X)

Course VIII is elective for those who take, or have taken, Course II.

IX GREEK CIVILIZATION. Lectures and collateral reading on the political institutions, the art, religion, and scientific thought of ancient Greece in relation to modern civilization. Knowledge of Greek is not required. *Tu., Th., Sat., at 10.* 31 F. H. PROFESSOR HEIDEL. (IX)

Course IX is elective for Juniors.

[X<sup>1</sup> PLATO,—Republic. *Three times a week (first half-year).* PROFESSOR HEIDEL.]

[XI<sup>2</sup> GREEK LITERARY CRITICISM. Aristotle's Poetics, the treatise On the Sublime, and selections from Dionysius of Halicarnassus. *Three times a week (second half-year).* PROFESSOR HEIDEL.]

Courses X and XI are elective for those who have taken Courses V and VI, or Course VII. They are omitted in 1920-21.

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## HEBREW.†

ELEMENTARY COURSE. Davidson's Grammar. The verbal and nominal forms and the elements of syntax are thoroughly mastered. Careful attention is given to the acquisition of a practical, working vocabulary. Short sentences in Hebrew are

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† Students may receive credit for work in this department pursued at the Berkeley Divinity School.

read with every lesson, accompanied by exercises in Hebrew composition (*first half-year*). Kittel's Hebrew Bible. The Brown, Driver, and Briggs Hebrew Lexicon. Selections from Genesis. The Book of Ruth. Sight reading (*second half-year*). *Four times a week, the hours to be determined.* Berkeley Divinity School.

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## GERMAN.

PROFESSOR CURTS; ASSISTANT PROFESSOR STEVENS; DR. BAERG.

I ELEMENTARY. An introduction into grammar, with drill in pronunciation. Reading of easy narrative prose, with practice in sight translation. Exercises in conversation and composition, based on the texts read. SECTION 1, *Mon., Wed., Fri., at 8*; SECTION 2, *Mon., Wed., Fri., at 1*; SECTION 3, *Tu., Th., Sat., at 11.* 11 F. H. ASSISTANT PROFESSOR STEVENS and DR. BAERG. (XV)

Candidates for the degrees of Ph. B. and B. S. are required to complete the equivalent of I and II (or II Sc.) German, as well as I and II French. Such of these courses as they have not taken and passed before entering college, they must take as soon as practicable after entering.

II INTERMEDIATE. Reading of narrative and dramatic prose and poetry, with considerable sight translation. A review of elementary grammar, accompanied by written exercises, based on the vocabulary of everyday life. Dictation exercises, and practice in reading and speaking German. SECTION 1, *Mon., Wed., Fri., at 8*; SECTION 2, *Mon., Wed., Fri., at 1.* 31 F. H. PROFESSOR CURTS and DR. BAERG. (XV)

II Sc. INTERMEDIATE SCIENTIFIC. Reading from an easy technical reader, with a gradual advance to more difficult material. The acquisition of a reading knowledge of scientific German through material from several of the natural sciences. Considerable sight translation, and some parallel reading, to be made the subject of written reports. *Tu., Th., Sat., at 8.* 12 F. H. ASSISTANT PROFESSOR STEVENS. (XV)

Course II and II Sc. are elective for those who have taken Course I, or who have passed elementary German for admission.

III. HISTORICAL. Rapid reading of historical and literary works bearing on some of the more generally interesting periods of German history. The historical significance of the subject matter is discussed. Two or three texts are assigned for outside reading and made the basis of written reports in German. There is a brief review of German grammar and work in prose composition. As emphasis is laid on a practical training in the language, German is used in the class as far as is convenient. *Mon., Wed., Fri., at 9.* 37 F. H. ASSISTANT PROFESSOR STEVENS. (II)

Course III is elective for those who have taken Course II, or who have passed intermediate German for admission.

III Sc. ADVANCED SCIENTIFIC. Reading from more difficult scientific material. In so far as possible, such selections are made for class reading as will emphasize the unity and correlation of the natural sciences. The class work is supplemented by private, parallel assignments from standard articles in that particular science in which the student is specializing. *Mon., Wed., Fri., at 11.* 37 F. H. PROFESSOR CURTS. (IV)

Course III Sc. is elective for those who have taken Course II or II Sc., or who have passed intermediate German for admission.

IV THE CLASSICAL PERIOD. Lessing, Goethe, and Schiller are taken up in the order named, and a brief study is made of these authors, accompanied by parallel readings from their works. Regular themes in German. In great part the lectures are given and the class exercises conducted in German. The following works are read in class: Lessing, — Emilia Galotti; Goethe, — Hermann und Dorothea, and Faust I; Schiller, — Wallenstein. *Tu., Th., Sat., at 8.* 36 F. H. PROFESSOR CURTS. (VII)

Course IV is elective for those who have taken Course III or its equivalent.

V LITERATURE OF THE EARLIER NINETEENTH CENTURY. Rapid reading from authors of the first half of the century, with a study of the literary tendencies of the period. A part of the work is read outside of class and made the subject of

written reports in German. In considerable part the class exercises are conducted in German. *Mon., Wed., Fri., at 11.*  
36 F. H. ASSISTANT PROFESSOR STEVENS. (IV)

[VI LITERATURE OF THE LATER NINETEENTH CENTURY. Rapid reading from authors of the second half of the century, with a study of the literary tendencies of the period. A part of the work is read outside of class and made the subject of written reports in German. In considerable part the class exercises are conducted in German. *Three times a week.*]

Courses V and VI, which are given in alternate years, are elective for those who have taken Course III or its equivalent. Course VI is omitted in 1920-21.

VII<sup>2</sup> GERMAN LIFE AND INSTITUTIONS. The aim of the course is to give the student further practice in reading non-fictional German, at the same time introducing him to some of the more important phases of German history and civilization. Parallel readings on the physical geography and history of Central Europe. Lectures on German life and institutions. Regular themes in German. All class exercises are conducted in German. *Tu., Th., Sat., at 9 (second half-year).*  
39 F. H. DR. BAERG. (VIII)

VIII<sup>2</sup> ADVANCED GRAMMAR AND COMPOSITION. An intensive review of the elementary phonology and forms of the language, followed by a study of the syntax and an introduction to the historical grammar of German. Regular exercises in writing German. In part the class exercises are conducted in German, and there is constant practice in speaking the language. The course is designed especially for those preparing to teach German. *Tu., Th., at 10 (second half-year).*  
12 F. H. PROFESSOR CURTS. (IX)

[IX HISTORY OF GERMAN LITERATURE. A course of lectures covering the history of the literature in outline from the earliest times to the death of Goethe, with readings from an anthology. Parallel reading is assigned, to be done outside of class, with written reports in German. *Twice a week.* PROFESSOR CURTS.]

Courses VIII and IX, which are given in alternate years, are elective for those who have taken Course III, or its equivalent. Course IX is omitted in 1920-21.

## ROMANCE LANGUAGES.

PROFESSORS KUHN and MANN; ASSOCIATE PROFESSORS BUSSOM and CLARK; MR. SMITH.

## FRENCH.

I ELEMENTARY FRENCH. An introduction to French grammar and composition. Reading of simple narrative prose. Oral drill is carried on throughout the year and special attention is given to pronunciation. SECTION 1, *Tu., Th., Sat., at 8.* 28 F. H. SECTION 2, *Mon., Wed., Fri., at 9;* SECTION 3, *Mon., Wed., Fri., at 11;* SECTION 4, *Mon., Wed., Fri., at 2.* 39 F. H. MR. SMITH. (XIII)

Candidates for the degrees of Ph. B. and B. S. must complete the equivalent of Courses I and II in French, as well as I and II in German. Such of these courses as they have not taken and passed before entering college, they must take as soon as practicable after entering.

II INTERMEDIATE FRENCH. This course has for its main object careful drill in the use of the French language, together with the reading of a large amount of French. Special attention is given to the study of France as a country, its people, and its literature. Collateral reading is assigned to be prepared for examination. SECTION 1, *Tu., Th., Sat., at 8;* SECTION 2, *Mon., Wed., Fri., at 10;* SECTION 3, *Tu., Th., Sat., at 10;* SECTION 4, *Mon., Wed., Fri., at 2.* 11 F. H. PROFESSOR MANN, and ASSOCIATE PROFESSORS BUSSOM and CLARK. (XIII)

Course II is elective for those who have taken Course I, or who have passed elementary French for admission.

III FRENCH LANGUAGE. This course is designed primarily to develop fluency in the written and spoken language. Special stress is laid on the requirement of a correct pronunciation. Systematic study of vocabulary. Review of word order and the more difficult points of syntax. Regular exercises in writing French. Collateral reading is made the subject of oral and written reports. Lectures on French life and institutions. In great part the class exercises are conducted in French. SECTION 1, *Mon., Wed., Fri., at 9.* 15 F. H. SECTION 2, *Tu., Th., Sat., at 10.* 28 F. H. ASSOCIATE PROFESSOR CLARK. (XIII)

Course III is elective for those who have taken Course II, or who have passed intermediate French for admission.

\*IV FRENCH LITERATURE. A general course in the literature of modern France. Some of the masterpieces of the great writers are read and discussed in French, but not translated. Duval's *Histoire de la Littérature Française* is read and supplemented by frequent lectures on the general state of literature in France in the seventeenth, eighteenth, and nineteenth centuries. At each recitation translation from English into French is made. In addition, each member of the class must make, twice during the year, a more extensive study of some one particular writer. The class exercises are partly conducted in French. *Mon., Wed., Fri., at 8.* 39 F. H. PROFESSOR KUHN. (I)

Course IV is elective, with the permission of the instructor, for Sophomores who have taken Course II or Course III.

[V THE SEVENTEENTH CENTURY. Reading and discussion of representative authors of the Golden Age, and lectures on the literature and social life of the period. To supplement the class-room work regular collateral reading is assigned on which reports are to be written. Class exercises are conducted in French. *Twice a week.* ASSOCIATE PROFESSOR BUSSOM.]

Course V is elective for Sophomores who have taken Course II or Course III. It is given in alternate years with Course VI, and is omitted in 1920-21.

VI THE NINETEENTH CENTURY. Some of the best literary products of the period are read and discussed in class. A wider field is covered by means of collateral reading on which written reports are made. Lectures are given in French on the development of French literature from the beginning of the Romantic school. *Tu., Th., at 9.* PROFESSOR MANN. (VIII)

Course VI is elective for Sophomores who have taken Course II or Course III.

VII OLD FRENCH. The work consists in the translation of Old French texts, and the study of Old French literature,

with special reference to its influence on the literatures of the other nations of Western Europe. Lectures on the origin of the French language and collateral reading form part of the work. *Tu., Th., at 10 (first half-year)*. 39 F. H. PROFESSOR KUHN. (IX)

Course VII is elective for those who have taken Course IV.

VIII<sup>a</sup> FRENCH. This course is especially designed to meet the needs of those who intend to teach French. It includes the study of grammar and composition, phonetics of French pronunciation, and other appropriate topics. The class exercises are partly conducted in French. *Tu., Th., at 10 (second half-year)*. 39 F. H. PROFESSOR KUHN. (IX)

Course VIII is elective for those who have taken Courses I-IV.

[IX OLD PROVENÇAL. This is intended as a companion course to V French, and is literary rather than linguistic in its aims. The work consists in the study of texts, lectures on the life and poetry of the troubadours and their influence on early European literature, collateral readings, and a brief consideration of Provençal philology. *Twice a week*. PROFESSOR MANN.]

Course IX is elective for those who have taken either Course IV in French, or Courses I and II in French, and Course II in Spanish. It is omitted in 1920-21.

## ITALIAN.

I ELEMENTARY ITALIAN. Grammar, composition, and reading of Italian prose. In addition to the regular work by the class in translating modern prose, Professor Kuhns translates and interprets to the class the *Inferno* and the *Purgatorio* of Dante, one hour a week, during the second semester, being devoted to this exercise. As a preparation for this part of the work, the class is required to read Gardner's Dante (in Temple Primers). *Mon., Wed., Fri., at 10*. 37 F. H. PROFESSOR KUHN and ASSOCIATE PROFESSOR CLARK. (III)

Course I is elective for Sophomores who have taken I French.



II ADVANCED ITALIAN. In this course the four great Italian poets are read and translated, including the *Paradiso* and the *Vita Nuova* of Dante, and the works of Petrarch, Tasso, and Ariosto. *Mon., Wed., at 10.* 39 F. H. PROFESSOR KUHNS. (III)

Course II is elective for those who have taken Course I.

III DANTE IN ENGLISH. The *New Life* and the *Divine Comedy* are read in English translations. The instructor interprets these books in the light of the history, science, theology, and philosophy of the Middle Ages, comparing Dante with Homer, Shakespeare, and other world-poets, and showing his influence on modern thought, art, and literature. *Tu., at 8.* 39 F. H. PROFESSOR KUHNS. (VII)

Course III is elective for Sophomores.

#### SPANISH.

I ELEMENTARY SPANISH. Grammar, and reading of simple Spanish prose. SECTION 1, *Mon., Wed., Fri., at 10.* 14 F. H. SECTION 2, *Mon., Wed., Fri., at 2.* 12 F. H. ASSOCIATE PROFESSOR BUSSOM. (VI)

Course I is elective for Sophomores who have taken I French.

II SPANISH LITERATURE. The work of this course consists in the reading of representative authors, a general survey of the development of Spanish literature, and a study of Spain and the Spanish people. In addition, there is regular drill in composition. Part of the exercises are conducted in Spanish. *Mon., Wed., Fri., at 9.* 12 F. H. PROFESSOR MANN. (II)

Course II is elective for those who have taken Course I.

III SPANISH COMPOSITION AND CONVERSATION. Special attention is given in this course to conversation, together with personal and commercial correspondence, and a study of the Spanish-American countries. *Tu., Th., at 9.* 12 F. H. ASSOCIATE PROFESSOR BUSSOM. (VIII)

Course III is elective for those who have taken Course I.

## ENGLISH LITERATURE.

PROFESSORS FARLEY AND WOODBRIDGE.

I GENERAL INTRODUCTION TO ENGLISH LITERATURE. An outline of the history of the literature, with class-room reading and discussion of representative works illustrative of different varieties and periods of English literature. SECTION 1, *Tu., Th., Sat., at 8*; SECTION 2, *Tu., Th., Sat., at 10*. 14 F. H. PROFESSORS FARLEY and WOODBRIDGE. (XVI)

Course I is elective for Sophomores.

II SHAKESPEARE. An introductory course. Lectures, discussions, and collateral reading. A considerable number of plays, perhaps fifteen or twenty, are studied without minute attention to the text. *Mon., Wed., Fri., at 10*. 14 F. H. PROFESSOR WOODBRIDGE. (III)

Course II is elective for Sophomores. The advanced courses in English literature will be open after this year to students who have completed either Course I or Course II.

III ENGLISH POETS AND ESSAYISTS OF THE VICTORIAN ERA. Interpretation and discussion of texts; lectures; critical reports. The authors studied are Carlyle, Tennyson, Ruskin, Arnold (verse and prose), Browning. *Tu., Th., Sat., at 11*. 14 F. H. PROFESSOR FARLEY. (X)

Course III is elective for those who have taken Course I.

[IV] STUDIES IN THE CONTEMPORARY DRAMA. Lectures, discussions, critical reports. The more significant tendencies in dramatic writing since Ibsen are discussed. Several plays by Pinero, Jones, Galsworthy, Synge, Shaw, Dunsany, Barrie, Moody, and other English, American, and continental European authors are analyzed in class, and additional plays are assigned to the members of the course to be studied and reported upon. The text-book is T. H. Dickinson's *Chief Contemporary Dramatists*. *Three times a week (first half-year)*.]

Course IV is elective for those who have taken Course I or Course II. It is omitted in 1920-21.

[V<sup>2</sup> THE ART OF POETRY. A discussion of the significance of poetry as a means of expression; its relation to other arts; theories of English and American poets in regard to the nature and aims of poetry; the kinds of subjects that are adapted to poetical treatment; the methods by which the poet achieves his effects; poetic diction, rhythm, rhyme, tone-color; recent tendencies in poetry. The required reading includes not only critical essays, but a considerable amount of English and American verse chosen from various periods. *Three times a week (second half-year).*]

Course V is elective for those who have taken Course I or Course II. It is omitted in 1920-21.

[VI SIX PLAYS OF SHAKESPEARE. *Three times a week.*]

Course VI is elective for those who have taken Course I or Course II. It is omitted in 1920-21.

[VII ELEMENTS OF LITERARY CRITICISM. Discussion of the essential elements and the various forms of literature, with practical exercises in the application of critical principles. Winchester's Principles of Literary Criticism is used as a text-book. *Once a week.*]

Course VII is elective for those who have taken Course I or Course II. It is omitted in 1920-21.

VIII THE ENGLISH DRAMA. An historical survey, from the miracle plays to the end of the nineteenth century. *Mon., Wed., Fri., at 2.* 29 F. H. PROFESSOR WOODBRIDGE. (VI)

Course VIII is elective for those who have taken Course I.

\*IX THE ENGLISH ROMANTIC MOVEMENT. A study of English romanticism from its beginnings early in the eighteenth century to its culmination in the nineteenth. The seminary method of instruction is used. *Mon., Wed., Fri., at 11.* 23 F. H. PROFESSOR FARLEY. (IV)

Course IX is elective, with the permission of the instructor, for Seniors who have taken Course I, and one other year course in English literature.

## ENGLISH LANGUAGE.

PROFESSORS MEAD AND CONLEY; MR. HENCH.

I ENGLISH COMPOSITION. Each member of the class is required to write numerous themes, making practical application of various rhetorical principles. These themes are criticised by the instructor and discussed with the pupil at hours specially appointed. Considerable collateral reading is assigned and furnishes models of the various types of writing. Attendance at consultation hour is required. SECTIONS 1 and 2, *Mon., Wed., Fri., at 8.* 12 and 29 F. H. SECTIONS 3 and 4, *Mon., Wed., Fri., at 11.* A and 29 F. H. SECTIONS 5 and 6, *Mon., Wed., Fri., at 1.* 12 and 29 F. H. PROFESSOR CONLEY and MR. HENCH. (IV)

Course I is required of Freshmen.

\*II<sup>2</sup> ADVANCED ENGLISH COMPOSITION. The work of this course consists of somewhat lengthy compositions weekly, the time being nearly equally divided between literary criticism and narrative. Considerable attention is given to the novel and the short-story as types of literature, and readings in them are assigned. *Mon., Wed., Fri., at 2 (second half-year).* 29 F. H. PROFESSOR CONLEY. (VI)

Course II is elective, with the permission of the instructor, for those who have taken Course I.

III ADVANCED ENGLISH COMPOSITION. A study of various types of composition, with constant practice in theme-writing. Each member of the class is required to present on an average at least one thousand words per week. None of the essays may be omitted, and most of them are required to be re-written. The written work is criticised in the class-room, and also at hours appointed by the instructor for personal conference. Thursday at 3 is reserved for criticism. *Tu., at 3 (counting as two hours).* 29 F. H. PROFESSOR MEAD. (XVII)

Course III is elective for Sophomores.

[IV THE ENGLISH ESSAY. The development of the essay, with a study of models and an examination of the principles of style. This is a practical course, with close criticism and

rewriting of papers, and is designed for students who have practically mastered the mechanics of expression and are prepared to do advanced work. *Twice a week.* PROFESSOR MEAD.]

Course IV is elective for Juniors. It is omitted in 1920-21.

V OLD ENGLISH (Anglo-Saxon). An elementary course in Old English, accompanied by a brief course in the history of the English language. A competent acquaintance with Old English is fundamental to the study of the English language and of the early English literature. The principal reading at the outset is in the Gospel of St. John. The grammar is drawn from Cook's First Book in Old English, with copious illustrations and explanations based upon the texts read. The books needed are: Cook, A First Book in Old English; Bright, The Gospel of John in West Saxon; Bradley, The Making of English. *Mon., Wed., Fri., at 3.* 29 F. H. PROFESSOR MEAD. (XVIII)

Course V is elective for Sophomores, but only those are advised to elect it who have shown some aptitude for the study of language and have formed habits of accuracy.

[VI OLD ENGLISH (Anglo-Saxon). An advanced course in Old English prose and poetry. The first half-year is mainly occupied with historical prose and war poetry, and the second half-year with Beowulf. Lectures illustrated by lantern slides discuss the main features of Old English civilization. *Twice a week.* PROFESSOR MEAD.]

Course VI is elective for Juniors.

[VII THE AGE OF CHAUCER. A study of fourteenth century literature and the social life described in Chaucer's Canterbury Tales, Piers the Plowman, and the verse romances, with an introductory course in the writers preceding Chaucer, as represented in Cook's Literary Middle English Reader. Lectures discussing typical aspects of social, religious, industrial, and court life, with assigned readings, and class discussions. PROFESSOR MEAD.]

Course VII is elective for Juniors who have taken Course V. It is omitted in 1920-21.

VIII HISTORY OF THE ENGLISH LANGUAGE. The aim of this course is to show in lectures and class discussions how English life and culture are illustrated by changes in the meaning of words since the Norman Conquest. Special attention is given to the formation of a working English vocabulary. As far as possible the work is brought into connection with the study of literature. The collateral work involves the use of various books of reference, and in particular of Krapp's Modern English, Trench's English Past and Present, and Skeat's Concise Etymological Dictionary. *Tu., Th., at 9.* 29 F. H. PROFESSOR MEAD. (VIII)

Course VIII is elective for Juniors.

IX ARTHURIAN ROMANCES. The sources and history of the Arthurian Romances. Class readings in some of the better known forms of Arthurian story, such as Tennyson's Idylls of the King, and their sources, and lectures on the older literature that furnished material to Tennyson and other modern poets. The social conditions out of which the romances grew receive special attention, and the life of the Middle Ages is discussed in lectures, illustrated by lantern slides. *Wed., Fri., at 9.* 29 F. H. PROFESSOR MEAD. (II)

Course IX is elective for Juniors.

## PUBLIC SPEAKING.

ASSISTANT PROFESSOR GUNNISON.

I ELEMENTARY PRINCIPLES. A general course in fundamental training of voice and body for expression. Emphasis on mental action as the source of expression. Text-book, technical exercises, recitations, and speeches. SECTION 1, *Tu., at 9*; SECTION 2, *Tu., at 10*; SECTION 3, *Wed., at 9*; SECTION 4, *Wed., at 10*; SECTION 5, *Wed., at 2.* Room B, F. H.

Course I is elective for Sophomores.

II ORAL INTERPRETATION. Oral interpretation of different forms of literature, with technical instruction and drill in voice and action. Text-book, exercises, recitations, and speeches. SECTION 1, *Th., at 9*; SECTION 2, *Th., at 11*; SECTION 3, *Th., at 1*; SECTION 4, *Th., at 2.* Room B, F. H.

Course II is elective for Juniors.

## WESLEYAN UNIVERSITY

III PUBLIC ADDRESSES. First semester: argumentation and debate; briefs, discussions, debates, etc. Second semester: original speeches prepared and delivered. SECTION 1, Tu., at 1; SECTION 2, Th., at 2. Hours 1, 2, 3.

Course III is elective for Seniors.

## HISTORY.

PROFESSORS DUTCHER AND WILKINSON, VERNON WILKINSON AND GERRISH.

I ENGLISH HISTORY. The history of England from the earliest times to the present day. That history of Great Britain is used as the text-book, and there is required, in addition, the reading of Wakeman's History of the Country of England, Cheyney's Introduction to the History of England, Montague's Elements of English Constitutional History, and a few selections from Adams and Stephens's Select Documents of English Constitutional History. Lectures and recitations. Tu., Th., at 1 and 2. One hour in sections. 34 S. L. PROFESSORS DUTCHER AND WILKINSON.

Course I is elective for Freshmen who have credit for one unit in history on admission. This course is the only one in the second required group of studies for Freshmen. Owing to its elementary character this course should be elected not later than the Sophomore year. Course I, or its equivalent the course in War Issues given in 1914-15 is considered such equivalent. is prerequisite to the advanced courses in history, except Course IX.

Students electing history as their major study must take Course I not later than the Sophomore year and must complete the nine hours required for a major in this department by taking either courses in American history and government, or courses in European history and government.

N. B. For Courses II, III, IV, V, VI, and VII and VIII read at least one modern language besides English as almost indispensable.

\*Absent on leave.

## VESLEYAN UNIVERSITY.

**II. HISTORY OF THE EXPANSION OF EUROPE.** First semester: Portuguese, Spanish, French, Dutch, and English exploration, trade, and colonization in America, Africa, and Asia from the time of Henry the Navigator to the middle of the eighteenth century, with special attention to the administrative systems, the regulation of trade and industry, the treatment of vassal races, the activities of Christian missionaries, and similar problems. Second semester: a similar study of the period since the middle of the eighteenth century, with special reference to the English in India, Canada, Australia, and South Africa, to the Dutch in the East Indies, to the liberation of South America, and to the partition of Africa. Lectures, recitations, and essays. *M. W. T. J., Fri., at 10.* 15 F. H. HOSFORD, INSTRUCTOR. (III)

Course II is elective for Sophomores who have attained a grade of C- in Course I, and for Juniors and Seniors who have taken any course in history. Courses II and VII are given in alternate years, Course VII being omitted in 1920-21.

**III. ANCIENT HISTORY.** First semester: after a brief survey of the earliest times, the history of Greece from the beginning of the Persian wars and of Rome from the beginning of the Punic wars is carried to 133 B. C. Second semester: the history of the Roman republic after 133 B. C., of the Roman empire, and of the so-called Dark Ages to the death of Charles the Great, 814 A. D., with special attention to the rise of Christianity and of Mohammedanism. Botsford's *History of the Ancient World*, supplemented by other books on special periods. Lectures, recitations, and essays. *Three times a week. See Class SR.*

Course III is elective for Sophomores who have attained a grade of C- in Course I, and for Juniors and Seniors who have taken any course in history or who are taking their major in Greek or Latin. By special permission of the instructor, either semester may be elected separately, though it is strongly advised that the course be taken as a whole. This course alternates with Course IV.

**IV. MEDIAEVAL HISTORY.** First semester: from the death of Charles the Great, 814 A. D., to the close of the thirteenth



## WESLEYAN UNIVERSITY

century, with the empire, the papacy and France as the central factors, and with special attention to feudalism, the crusades, and the rise of the towns. Second semester: the development of culture and of the vernacular literature, the rise of the universities, the renaissance, the age of discovery, the protestant reformation, the counter-reformation, and the wars of religion, to the treaties of Westphalia, covering approximately from 1300 to 1648. *Emerson & Medieval Europe and Beginnings of Modern Europe*, supplemented by other books on special periods. Lectures, recitations, and essays. *Tu., Th., Sat., at 9. 15 F. H. MR. FERRISS*

Course IV is elective for Sophomores who have attained a grade of C- in Course I, and for Juniors and Seniors who have taken any course in history. Courses III and IV are given in alternate years, Course III being omitted in 1921-22.

V MODERN EUROPEAN HISTORY. First semester: the age of Louis XIV, the rise of Russia and of Prussia, the enlightened despotism, the French revolution, and the Napoleonic era. Second semester: the Holy Alliance, the revolutionary movements, the development of constitutional government, the unification of Germany and of Italy, with special attention to the more important events and movements since 1870. *Stephens's Syllabus of Modern European History*, *Robinson and Beard's Readings in Modern European History*, *Hazen's Europe since 1875*, and other books on special periods. Lectures, recitations, and essays. *Wed., Fri., at 1. 15 F. H. MR. WILKINSON*

Course V is elective for Sophomores who have attained a grade of C- in Course I, and for Juniors and Seniors who have taken any course in history, or who are taking their major in German or Romance languages. In 1921-22 the second semester may be elected separately with the permission of the instructor.

[\*VI HISTORY SEMINARY. Topics for individual research and report are regularly assigned, and the work of the student is subject to the constant supervision and criticism of the instructors. At the close of the year, each student is required

as a test of his ability to do research and to present his results in a correct and lucid manner, to prepare an essay or thesis of considerable length upon some topic studied in the course. *Three hours a week.* PROFESSOR DUTCHER and MR. WILKINSON.]

Course VI is elective, with the permission of the instructors, for Seniors who have shown, in earlier courses in the department, ability to do advanced work in history. The course is omitted in 1920-21.

[VII UNITED STATES HISTORY, 1750-1829. First semester: the French and Indian war, the English colonial system and the struggle precipitated by the attempts of George III. and his ministers to remodel it, the war for independence, the confederation, the framing and ratification of the state and federal constitutions. Second semester: the first six presidents, their personalities, problems, and policies, the problem of relations with Europe, the war of 1812, the Monroe doctrine, national expansion, growth of democracy. The important constitutional, political, economic, and social developments are emphasized. Collateral readings are assigned from Channing's History of the United States, volumes 3 and 4, and other works. Lectures, recitations, and essays. *Three times a week.* PROFESSOR DUTCHER.]

Course VII is elective for those who have taken any course in history or economics. This course alternates with Course II.

VIII UNITED STATES HISTORY, 1829-1920. First semester: The personalities, policies, and achievements of the more important presidents and political leaders, and the important constitutional, political, economic, and social developments to the close of the civil war. Second semester: Reconstruction, the new economic and social problems, the United States as a colonial and world power. Bassett's Short History of the United States, and collateral readings. Lectures, recitations, and essays. *Tu., Th., Sat., at 8.* 15 F. H. MR. WILKINSON.

(VII)

Course VIII is elective for those who have taken any course in history or economics.

**IX AMERICAN GOVERNMENT.** First semester: a survey of the development of constitutional government in America, followed by a study of the origin, development, present condition, and methods of operation of the several organs of the federal government; the rise, organization, and methods of political parties. Second semester: the growth of the state constitutions, and the organization and operation of the state governments; local government and municipal administration; and the rights and obligations of citizens. In the treatment of the various topics, the significance of the historical development is constantly emphasized, comparisons with other countries are made, and discussion is turned from time to time to the fundamental problems of systematic political theory. Munro's *Government of the United States*, Munro's *Government of American Cities*, and collateral readings. Discussions and reports. SECTION 1, *Mon., Wed., Fri., at 8.* SECTION 2, *Tu., Th., Sat., at 11.* 15 F. H. MR. WILKINSON. (X)

Section 1 of this course is elective for students majoring in history, and for those who have taken, or are taking, Course VII or Course VIII. Section 2 is elective for Juniors and Seniors not eligible for Section 1, especially those taking the course to meet the generalization requirement.

Courses IX and X are given in alternate years, Course X being omitted in 1920-21.

**[X COMPARATIVE GOVERNMENT.** First semester: a systematic study of the constitutions, of the national, local, and municipal systems of administration, of political parties, and of the functions of government in Great Britain, France, and Germany with special attention to the results of the war. Second semester: a similar survey of the other European countries, of the Latin-American countries, of self-governing dependencies, of India, China, and Japan, with some consideration of colonial administration. The aim of the course is to present the development of constitutional government outside of the United States, and to study the internal problems of the more important countries, with constant attention to American parallels and to the problems of systematic political theory. The course is intended to give a clearer knowledge of

the contemporary conditions of other countries, and to develop broader political views. Discussions and reports. *Three times a week.* MR. WILKINSON.]

Course X is elective for Sophomores who have attained a grade of C— in Course I, and for Juniors and Seniors who have taken any course in history. This course alternates with Course IX, and is omitted in 1920-21.

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## ECONOMICS AND SOCIAL SCIENCE.

PROFESSOR TUTTLE; ASSOCIATE PROFESSORS FISHER AND HALL;  
ASSISTANT PROFESSOR WILLIAMSON.

I PRINCIPLES OF ECONOMICS. This course gives the student a scientific analysis of modern industrial society, and acquaints him with the principles of political economy and correct methods of analysis. The aim is to give, first, discipline in habits of scientific thinking in regard to all social phenomena, and, second, perspective and a basis of sound knowledge for further and more intensive study in the general field of economics and social science, and for an intelligent exercise of the duties of citizenship. The means of instruction in this and in the other courses in economics are text-books, lectures, discussions, reports, collateral reading, and frequent written tests. SECTIONS 1 and 2, *Mon., Wed., Fri. at 9.* 14 and 31 F. H. SECTIONS 3 and 4, *Mon., Wed., Fri., at 2.* 12 and 14 F. H. PROFESSOR TUTTLE and ASSOCIATE PROFESSOR FISHER. (XI)

Course I is elective for Sophomores.

II ECONOMIC HISTORY. Industrial and commercial development from the middle of the eighteenth century to the World War. The course begins with the history of the industrial revolution, and includes the study of such topics as the growth of international trade, the free trade movement in England, protectionism in France, Germany, and the United States, railways and waterways, trans-oceanic competition, agriculture and manufacturing, particularly the rise of the steel and textile industries in Western Europe, England, and

the United States. *Mon., Wed., Fri., at 1.* 39 F. H. ASSOCIATE PROFESSOR HALL. (V)

Course II is elective for Seniors, and for Juniors who have received grade C— or better in Course I, and, with the permission of the instructor, for those who are taking Course I.

III CORPORATIONS, TRUSTS, AND MONOPOLIES. The historical development and analysis of the different forms of industrial organization, including the single proprietorship, partnership, joint-stock company, and corporation, and the later developments, such as the pool, trust, holding company, consolidated corporation, and "community of interest." Critical study of the economic and social effects of great combinations, illustrated by documents. The elements of corporation finance, with especial reference to organization and management. The evils of corporate organization, such as fraudulent promotion, over-capitalization, and manipulation. Public policy toward corporations. Conditions insuring progress in method and organization. The evil effects of monopoly, and the problems of control. Legislation in the United States and other countries, and important legal decisions. Public service corporations; public utilities commissions. The principles of transportation and railroad problems, economic, social and legal; the Interstate Commerce Commission. *Tu., Th., Sat., at 11.* 14 F. H. ASSOCIATE PROFESSOR FISHER. (X)

Course III is elective for Seniors, and for Juniors who have received grade C— or better in Course I.

IV MONEY AND BANKING. The theory of money, and the principles of monetary circulation. The origin and development of money; coinage; monometallism and bimetallism. The monetary history of the United States, England, France, and Germany. The production of the precious metals, and its relation to monetary policy. International bimetallism. The evolution of the gold standard. The principles of credit and the nature and functions of credit instruments. The theory and history of government issues of paper currency, and especially the "greenback" experiment in the United States. The theory and history of banking, and

## ENGLISH LANGUAGE.

PROFESSORS MEAD AND CONLEY; MR. HENCH.

I ENGLISH COMPOSITION. Each member of the class is required to write numerous themes, making practical application of various rhetorical principles. These themes are criticised by the instructor and discussed with the pupil at hours specially appointed. Considerable collateral reading is assigned and furnishes models of the various types of writing. Attendance at consultation hour is required. SECTIONS 1 and 2, *Mon., Wed., Fri., at 8.* 12 and 29 F. H. SECTIONS 3 and 4, *Mon., Wed., Fri., at 11.* A and 29 F. H. SECTIONS 5 and 6, *Mon., Wed., Fri., at 1.* 12 and 29 F. H. PROFESSOR CONLEY and MR. HENCH. (IV)

Course I is required of Freshmen.

\*II<sup>2</sup> ADVANCED ENGLISH COMPOSITION. The work of this course consists of somewhat lengthy compositions weekly, the time being nearly equally divided between literary criticism and narrative. Considerable attention is given to the novel and the short-story as types of literature, and readings in them are assigned. *Mon., Wed., Fri., at 2 (second half-year).* 29 F. H. PROFESSOR CONLEY. (VI)

Course II is elective, with the permission of the instructor, for those who have taken Course I.

III ADVANCED ENGLISH COMPOSITION. A study of various types of composition, with constant practice in theme-writing. Each member of the class is required to present on an average at least one thousand words per week. None of the essays may be omitted, and most of them are required to be re-written. The written work is criticised in the class-room, and also at hours appointed by the instructor for personal conference. Thursday at 3 is reserved for criticism. *Tu., at 3 (counting as two hours).* 29 F. H. PROFESSOR MEAD. (XVII)

Course III is elective for Sophomores.

[IV THE ENGLISH ESSAY. The development of the essay, with a study of models and an examination of the principles of style. This is a practical course, with close criticism and

rewriting of papers, and is designed for students who have practically mastered the mechanics of expression and are prepared to do advanced work. *Twice a week.* PROFESSOR MEAD.]

Course IV is elective for Juniors. It is omitted in 1920-21.

V OLD ENGLISH (Anglo-Saxon). An elementary course in Old English, accompanied by a brief course in the history of the English language. A competent acquaintance with Old English is fundamental to the study of the English language and of the early English literature. The principal reading at the outset is in the Gospel of St. John. The grammar is drawn from Cook's First Book in Old English, with copious illustrations and explanations based upon the texts read. The books needed are: Cook, A First Book in Old English; Bright, The Gospel of John in West Saxon; Bradley, The Making of English. *Mon., Wed., Fri., at 3.* 29 F. H. PROFESSOR MEAD. (XVIII)

Course V is elective for Sophomores, but only those are advised to elect it who have shown some aptitude for the study of language and have formed habits of accuracy.

[VI OLD ENGLISH (Anglo-Saxon). An advanced course in Old English prose and poetry. The first half-year is mainly occupied with historical prose and war poetry, and the second half-year with Beowulf. Lectures illustrated by lantern slides discuss the main features of Old English civilization. *Twice a week.* PROFESSOR MEAD.]

Course VI is elective for Juniors.

[VII THE AGE OF CHAUCER. A study of fourteenth century literature and the social life described in Chaucer's Canterbury Tales, Piers the Plowman, and the verse romances, with an introductory course in the writers preceding Chaucer, as represented in Cook's Literary Middle English Reader. Lectures discussing typical aspects of social, religious, industrial, and court life, with assigned readings, and class discussions. PROFESSOR MEAD.]

Course VII is elective for Juniors who have taken Course V. It is omitted in 1920-21.

VIII HISTORY OF THE ENGLISH LANGUAGE. The aim of this course is to show in lectures and class discussions how English life and culture are illustrated by changes in the meaning of words since the Norman Conquest. Special attention is given to the formation of a working English vocabulary. As far as possible the work is brought into connection with the study of literature. The collateral work involves the use of various books of reference, and in particular of Krapp's Modern English, Trench's English Past and Present, and Skeat's Concise Etymological Dictionary. *Tu., Th., at 9.* 29 F. H. PROFESSOR MEAD. (VIII)

Course VIII is elective for Juniors.

IX ARTHURIAN ROMANCES. The sources and history of the Arthurian Romances. Class readings in some of the better known forms of Arthurian story, such as Tennyson's Idylls of the King, and their sources, and lectures on the older literature that furnished material to Tennyson and other modern poets. The social conditions out of which the romances grew receive special attention, and the life of the Middle Ages is discussed in lectures, illustrated by lantern slides. *Wed., Fri., at 9.* 29 F. H. PROFESSOR MEAD. (II)

Course IX is elective for Juniors.

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## PUBLIC SPEAKING.

ASSISTANT PROFESSOR GUNNISON.

I ELEMENTARY PRINCIPLES. A general course in fundamental training of voice and body for expression. Emphasis on mental action as the source of expression. Text-book, technical exercises, recitations, and speeches. SECTION 1, *Tu., at 9*; SECTION 2, *Tu., at 10*; SECTION 3, *Wed., at 9*; SECTION 4, *Wed., at 10*; SECTION 5, *Wed., at 2.* Room B, F. H.

Course I is elective for Sophomores.

II ORAL INTERPRETATION. Oral interpretation of different forms of literature, with technical instruction and drill in voice and action. Text-book, exercises, recitations, and speeches. SECTION 1, *Th., at 9*; SECTION 2, *Th., at 11*; SECTION 3, *Th., at 1*; SECTION 4, *Th., at 2.* Room B, F. H.

Course II is elective for Juniors.



III PUBLIC ADDRESSES. First semester: argumentation and debate; briefs, discussions, debates, text-book. Second semester: original speeches prepared and delivered. SECTION 1, *Tu.*, at 1; SECTION 2, *Tu.*, at 2. Room B, F. H.

Course III is elective for Seniors.

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## HISTORY.

PROFESSORS DUTCHER AND †WRISTON; MESSRS. WILKINSON AND GERRISH.

I ENGLISH HISTORY. The history of England from the earliest times to the present day. Tout's History of Great Britain is used as the text-book, and there is required, in addition, the reading of Wakeman's History of the Church of England, Cheyney's Introduction to the Industrial and Social History of England, Montague's Elements of English Constitutional History, and a few selections from Adams and Stephens's Select Documents of English Constitutional History. Lectures and recitations. *Tu.*, *Th.*, at 1, and a third hour in sections. 34 S. L. PROFESSOR DUTCHER and MR. GERRISH. (XI)

Course I is elective for Freshmen who have credit for one unit in history on admission. This course is the only one in the second required group of studies (see p. 113) open to Freshmen. Owing to its elementary character this course should be elected not later than the Sophomore year. Course I, or its equivalent (the course in War Issues given in 1918-19 is considered such equivalent), is prerequisite to the advanced courses in history, except Course IX.

Students electing history as their major study must take Course I not later than the Sophomore year, and must complete the nine hours required for a major in this department by taking either courses in American history and government, or courses in European history and government.

N. B. For Courses II, III, IV, V, VI, and X, ability to read at least one modern language besides English is almost indispensable.

†Absent on leave.

II HISTORY OF THE EXPANSION OF EUROPE. First semester: Portuguese, Spanish, French, Dutch, and English exploration, trade, and colonization in America, Africa, and Asia from the time of Henry the Navigator to the middle of the eighteenth century, with special attention to the administrative systems, the regulation of trade and industry, the treatment of weaker races, the activities of Christian missionaries, and similar problems. Second semester: a similar study of the period since the middle of the eighteenth century, with special reference to the English in India, Canada, Australia, and South Africa, to the Dutch in the East Indies, to the liberation of South America, and to the partition of Africa. Lectures, recitations, and essays. *Mon., Wed., Fri., at 10. 15 F. H.* PROFESSOR DUTCHER. (III)

Course II is elective for Sophomores who have attained a grade of C— in Course I, and for Juniors and Seniors who have taken any course in history. Courses II and VII are given in alternate years, Course VII being omitted in 1920-21.

[III ANCIENT HISTORY. First semester: after a brief survey of the earliest times, the history of Greece from the beginning of the Persian wars, and of Rome from the beginning of the Punic wars, is carried to 133 B. C. Second semester: the history of the Roman republic after 133 B. C., of the Roman empire, and of the so-called Dark Ages to the death of Charles the Great, 814 A. D., with special attention to the rise of Christianity and of Mohammedanism. Botsford's History of the Ancient World, supplemented by other books on special periods. Lectures, recitations, and essays. *Three times a week.* MR. GERRISH.]

Course III is elective for Sophomores who have attained a grade of C— in Course I, and for Juniors and Seniors who have taken any course in history or who are taking their major in Greek or Latin. By special permission of the instructor, either semester may be elected separately, though it is strongly advised that the course be taken as a whole. This course alternates with Course IV.

IV MEDIAEVAL HISTORY. First semester: from the death of Charles the Great, 814 A. D., to the close of the thirteenth

century, with the empire, the papacy, and France as the central factors, and with special attention to feudalism, the crusades, and the rise of the towns. Second semester: the development of culture and of the vernacular literatures, the rise of the universities, the renaissance, the age of discovery, the protestant reformation, the counter-reformation, and the wars of religion, to the treaties of Westphalia, covering approximately from 1300 to 1660. Emerton's Mediaeval Europe and Beginnings of Modern Europe, supplemented by other books on special periods. Lectures, recitations, and essays. *Tu., Th., Sat., at 9.* 15 F. H. MR. GERRISH.

(VIII)

Course IV is elective for Sophomores who have attained a grade of C- in Course I, and for Juniors and Seniors who have taken any course in history. Courses III and IV are given in alternate years, Course III being omitted in 1920-21.

V MODERN EUROPEAN HISTORY. First semester: the age of Louis XIV, the rise of Russia and of Prussia, the enlightened despotism, the French revolution, and the Napoleonic era. Second semester: the Holy Alliance, the revolutionary movements, the development of constitutional government, the unification of Germany and of Italy, with special attention to the more important events and movements since 1870. Stephens's Syllabus of Modern European History, Robinson and Beard's Readings in Modern European History, Hazen's Europe since 1815, and other books on special periods. Lectures, recitations, and essays. *Mon., Wed., Fri., at 1.* 15 F. H. MR. WILKINSON.

(V)

Course V is elective for Sophomores who have attained a grade of C- in Course I, and for Juniors and Seniors who have taken any course in history, or who are taking their major in German or Romance languages. In 1920-21 the second semester may be elected separately with the permission of the instructor.

[\*VI HISTORY SEMINARY. Topics for individual research and report are regularly assigned, and the work of the student is subject to the constant supervision and criticism of the instructors. At the close of the year, each student is required,

as a test of his ability to do research and to present his results in a correct and lucid manner, to prepare an essay or thesis of considerable length upon some topic studied in the course. *Three hours a week.* PROFESSOR DUTCHER and MR. WILKINSON.]

Course VI is elective, with the permission of the instructors, for Seniors who have shown, in earlier courses in the department, ability to do advanced work in history. The course is omitted in 1920-21.

[VII UNITED STATES HISTORY, 1750-1829. First semester: the French and Indian war, the English colonial system and the struggle precipitated by the attempts of George III. and his ministers to remodel it, the war for independence, the confederation, the framing and ratification of the state and federal constitutions. Second semester: the first six presidents, their personalities, problems, and policies, the problem of relations with Europe, the war of 1812, the Monroe doctrine, national expansion, growth of democracy. The important constitutional, political, economic, and social developments are emphasized. Collateral readings are assigned from Channing's History of the United States, volumes 3 and 4, and other works. Lectures, recitations, and essays. *Three times a week.* PROFESSOR DUTCHER.]

Course VII is elective for those who have taken any course in history or economics. This course alternates with Course II.

VIII UNITED STATES HISTORY, 1829-1920. First semester: The personalities, policies, and achievements of the more important presidents and political leaders, and the important constitutional, political, economic, and social developments to the close of the civil war. Second semester: Reconstruction, the new economic and social problems, the United States as a colonial and world power. Bassett's Short History of the United States, and collateral readings. Lectures, recitations, and essays. *Tu., Th., Sat., at 8.* 15 F. H. MR. WILKINSON.

(VII)

Course VIII is elective for those who have taken any course in history or economics.

**IX AMERICAN GOVERNMENT.** First semester: a survey of the development of constitutional government in America, followed by a study of the origin, development, present condition, and methods of operation of the several organs of the federal government; the rise, organization, and methods of political parties. Second semester: the growth of the state constitutions, and the organization and operation of the state governments; local government and municipal administration; and the rights and obligations of citizens. In the treatment of the various topics, the significance of the historical development is constantly emphasized, comparisons with other countries are made, and discussion is turned from time to time to the fundamental problems of systematic political theory. Munro's *Government of the United States*, Munro's *Government of American Cities*, and collateral readings. Discussions and reports. SECTION 1, *Mon., Wed., Fri., at 8.* SECTION 2, *Tu., Th., Sat., at 11.* 15 F. H. MR. WILKINSON. (X)

Section 1 of this course is elective for students majoring in history, and for those who have taken, or are taking, Course VII or Course VIII. Section 2 is elective for Juniors and Seniors not eligible for Section 1, especially those taking the course to meet the generalization requirement.

Courses IX and X are given in alternate years, Course X being omitted in 1920-21.

**[X COMPARATIVE GOVERNMENT.** First semester: a systematic study of the constitutions, of the national, local, and municipal systems of administration, of political parties, and of the functions of government in Great Britain, France, and Germany with special attention to the results of the war. Second semester: a similar survey of the other European countries, of the Latin-American countries, of self-governing dependencies, of India, China, and Japan, with some consideration of colonial administration. The aim of the course is to present the development of constitutional government outside of the United States, and to study the internal problems of the more important countries, with constant attention to American parallels and to the problems of systematic political theory. The course is intended to give a clearer knowledge of

the contemporary conditions of other countries, and to develop broader political views. Discussions and reports. *Three times a week.* MR. WILKINSON.]

Course X is elective for Sophomores who have attained a grade of C- in Course I, and for Juniors and Seniors who have taken any course in history. This course alternates with Course IX, and is omitted in 1920-21.

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## ECONOMICS AND SOCIAL SCIENCE.

PROFESSOR TUTTLE; ASSOCIATE PROFESSORS FISHER AND HALL;  
ASSISTANT PROFESSOR WILLIAMSON.

I PRINCIPLES OF ECONOMICS. This course gives the student a scientific analysis of modern industrial society, and acquaints him with the principles of political economy and correct methods of analysis. The aim is to give, first, discipline in habits of scientific thinking in regard to all social phenomena, and, second, perspective and a basis of sound knowledge for further and more intensive study in the general field of economics and social science, and for an intelligent exercise of the duties of citizenship. The means of instruction in this and in the other courses in economics are text-books, lectures, discussions, reports, collateral reading, and frequent written tests. SECTIONS 1 and 2, *Mon., Wed., Fri. at 9.* 14 and 31 F. H. SECTIONS 3 and 4, *Mon., Wed., Fri., at 2.* 12 and 14 F. H. PROFESSOR TUTTLE and ASSOCIATE PROFESSOR FISHER. (XI)

Course I is elective for Sophomores.

II ECONOMIC HISTORY. Industrial and commercial development from the middle of the eighteenth century to the World War. The course begins with the history of the industrial revolution, and includes the study of such topics as the growth of international trade, the free trade movement in England, protectionism in France, Germany, and the United States, railways and waterways, trans-oceanic competition, agriculture and manufacturing, particularly the rise of the steel and textile industries in Western Europe, England, and

the United States. *Mon., Wed., Fri., at 1.* 39 F. H. ASSOCIATE PROFESSOR HALL. (V)

Course II is elective for Seniors, and for Juniors who have received grade C— or better in Course I, and, with the permission of the instructor, for those who are taking Course I.

III CORPORATIONS, TRUSTS, AND MONOPOLIES. The historical development and analysis of the different forms of industrial organization, including the single proprietorship, partnership, joint-stock company, and corporation, and the later developments, such as the pool, trust, holding company, consolidated corporation, and "community of interest." Critical study of the economic and social effects of great combinations, illustrated by documents. The elements of corporation finance, with especial reference to organization and management. The evils of corporate organization, such as fraudulent promotion, over-capitalization, and manipulation. Public policy toward corporations. Conditions insuring progress in method and organization. The evil effects of monopoly, and the problems of control. Legislation in the United States and other countries, and important legal decisions. Public service corporations; public utilities commissions. The principles of transportation and railroad problems, economic, social and legal; the Interstate Commerce Commission. *Tu., Th., Sat., at 11.* 14 F. H. ASSOCIATE PROFESSOR FISHER. (X)

Course III is elective for Seniors, and for Juniors who have received grade C— or better in Course I.

IV MONEY AND BANKING. The theory of money, and the principles of monetary circulation. The origin and development of money; coinage; monometallism and bimetallism. The monetary history of the United States, England, France, and Germany. The production of the precious metals, and its relation to monetary policy. International bimetallism. The evolution of the gold standard. The principles of credit and the nature and functions of credit instruments. The theory and history of government issues of paper currency, and especially the "greenback" experiment in the United States. The theory and history of banking, and

the evolution of bank-note currency and deposit currency. The development of the banking systems of France, England, Germany, and the United States. Monetary and banking problems of the United States. Foreign exchange. Particular attention is given to the study of the Federal Reserve System, and of monetary and banking problems of the war and reconstruction. *Tu., Th., Sat., at 9.* 14 F. H. ASSOCIATE PROFESSOR HALL. (VIII)

Course IV is elective for Seniors, and for Juniors who have received grade C— or better in Course I.

V PUBLIC FINANCE. This course covers, in a general manner, the entire field of public finance, but pays special attention to taxation. Public expenditures, revenues from various sources, public debts, and budgets will be studied with reference both to theory and to the practice of various nations. *Mon., Wed., Fri., at 11.* 14 F. H. ASSISTANT PROFESSOR WILLIAMSON. (IV)

Course V is elective for Seniors, and for Juniors who have received grade C— or better in Course I.

\*VI STATISTICS AND ACCOUNTING. First semester: Statistics. This course deals with the collection, presentation, analysis and interpretation of economic statistics. Special attention is given to tabulating data, the use and construction of graphs and diagrams, frequency-distributions, and computation and use of averages, index numbers, dispersion, and correlation. A critical examination is made of modern statistical practice, and the sources of statistics are pointed out and evaluated. Besides lectures and class-room discussions, section exercises are conducted to give practice in statistical method, and in the diagrammatic and graphical presentation of data. *Two lecture hours and two hours in section exercise, four hours counting as three.*

Second semester: Accounting. This course presents the principles and methods of accounting. Accounting terminology and the meaning of various accounts are studied. The construction and analysis of balance sheets and income statements are covered. Special attention is given to the treatment of costs, depreciation funds, reserves, surpluses,



profits, etc. The work is carried on by means of lectures, class-room discussions, and outside problems. *Mon., Wed., Fri., at 2.* 37 F. H. ASSISTANT PROFESSOR WILLIAMSON. (VI)

Course VI is elective, with the permission of the instructor, for those who have completed two courses in the department with grade C— or better.

Students interested in mathematics are advised to take XI and XII Mathematics either the year after, or the same year as, they take VI Economics.

VII LABOR PROBLEMS. The course begins with a brief survey of the rise of the factory system. The trade union movement is then studied, and various present-day problems considered in their relation to unionism. The work is carried on by means of lectures, discussions in class-room, and frequent written tests on assigned reading. At least one thesis is required. *Tu., Th., Sat., at 10.* 29 F. H. ASSISTANT PROFESSOR WILLIAMSON. (IX)

Course VII is elective for Seniors, and for Juniors who have received grade C— or better in Course I.

VIII SOCIOLOGY. The principles of sociology. A discussion of the theory of adaptation, and the philosophical background of modern sociological thought. The analysis of the forces and factors shaping social institutions and determining national welfare. The study of selected problems, including poverty and social unrest. Lectures, reports, discussions, and written tests on assigned reading. *Mon., Wed., Fri., at 10.* 31 F. H. ASSOCIATE PROFESSOR HALL. (III)

Course VIII is elective for Seniors, and for Juniors who have received grade C— or better in Course I.

IX ECONOMIC THEORY. In this course a brief survey of the development of economic thought down to 1848 is followed by a critical study of contemporary economic theory. Selected readings in the works of economists since John Stuart Mill acquaint the student with the distinctive contributions of the various schools and the theoretical background of present day economic reform movements. Particular attention is given to the comparative and critical study

of theories of value and distribution. Lectures, reports on readings, and discussions. *Tu., Th., Sat., at 9.* 28 F. H. PROFESSOR TUTTLE. (VIII)

Course IX is elective for Seniors who have received grade C— or better in Course I.

\*X ECONOMICS SEMINARY. Subject for 1920-21: Special economic problems and programs of reform. A problem for individual investigation and report is selected by the student. The student works under the direction and supervision of the instructor, is expected to report weekly on the progress made, and finally to prepare a thesis exhibiting the results of the year's research. *Mon., 7-10 p. m., counting as three hours for the year.* 10 F. H. PROFESSOR TUTTLE.

Course X is elective, with the permission of the instructor, for those Seniors who have shown, in earlier courses in the department, the ability to undertake individual research.

## PHILOSOPHY.

PROFESSOR ARMSTRONG; ASSISTANT PROFESSOR GIVEN.

I LOGIC. Jevons-Hill's Elements of Logic; lectures and recitations, illustrated by numerous examples in logical praxis. An elementary course in the forms of reasoned thinking, both deductive and inductive. SECTIONS 1 and 2, *Mon., Wed., Fri., at 11*; SECTION 3, *Tu., Th., Sat., at 11 (first half-year)*. Same sections second half-year, alternating with the sections in I Psychology. 28 and 15 F. H. PROFESSOR ARMSTRONG and ASSISTANT PROFESSOR GIVEN. (IV)

Course I is elective for Sophomores.

II<sup>1</sup> ANCIENT AND MEDIAEVAL PHILOSOPHY. Zeller's Outlines of Greek Philosophy, with references to other authorities. Falckenberg's History of Modern Philosophy. Lectures, recitations, and discussions on the historical development of philosophy to the beginning of modern times. *Mon., Wed., Fri., at 9 (first half-year)*. 28 F. H. PROFESSOR ARMSTRONG. (II)

Course II is elective for Juniors who have taken any one of the following courses: I Philosophy, I Psychology, the introductory course in ethics. Juniors who elect it must have received grade C or better in one of these courses.

III<sup>2</sup> MODERN PHILOSOPHY TO 1840. Falckenberg's History of Modern Philosophy; lectures, recitations, discussions, and references to other standard authorities. The progress of modern philosophy is traced to the opening of the present age. *Mon., Wed., Fri., at 9 (second half-year).* 28 F. H. PROFESSOR ARMSTRONG. (II)

Course III is elective, under ordinary circumstances, for those who have taken Course II.

IV READINGS IN PHILOSOPHY. Readings in the philosophical classics, ancient and modern, and in collateral authorities. In the choice of selections special attention is given to the classical philosophies of the state and to the philosophy of art. The selections read are made the subject of discussion in the class-room; abstracts and theses may also be required. *Mon., Wed., Fri., at 2.* 24 F. H. ASSISTANT PROFESSOR GIVEN. (VI)

Course IV is elective for those who are taking, or who have taken, Courses II and III.

\*V PHILOSOPHY OF THE NINETEENTH CENTURY. Lectures, readings, and discussions on philosophical thought since the disruption of the Hegelian school. In the second half of the year the work is conducted by the seminary method. Special attention is given to contemporary English and American philosophy, and to recent types of opinion, as pragmatism and the systems of Bergson and Eucken. *Tu., 2:30-4:00 p. m., counting as two hours.* 24 F. H. PROFESSOR ARMSTRONG.

Course V is elective, with the permission of the instructor, for those who have taken Courses II and III, or their equivalent.

## PSYCHOLOGY.

PROFESSOR DODGE; ASSISTANT PROFESSOR HUMPHREY.

I ELEMENTARY PSYCHOLOGY. Lectures and recitations, based on Pillsbury's Essentials of Psychology, and references to other standard texts. SECTIONS 1 and 2, *Mon., Wed., Fri., at 11*; SECTION 3, *Tu., Th., Sat., at 11 (first half-year)*. Same sections second half-year, alternating with the sections in I Philosophy. 22 and B F. H. PROFESSOR DODGE and ASSISTANT PROFESSOR HUMPHREY. (IV)

Course I is elective for Sophomores. It may not be elected alone, but must be elected with I Philosophy. It is preparatory to all later work in the department, and it should therefore be taken in Sophomore year by all students who plan to elect their major studies in psychology.

II PHYSIOLOGICAL AND EXPERIMENTAL PSYCHOLOGY. Lectures and class demonstrations, with collateral reading. The course aims at a dynamic psychology. It deals with the nervous conditions of consciousness, with special reference to mental work, fatigue, and efficiency, the origin and integration of knowledge and conduct. Experimental methods of investigation are discussed and illustrated by class demonstrations. *Tu., Th., Sat., at 8.* 22 F. H. PROFESSOR DODGE. (VII)

Course II is elective for those who have taken Course I, or who are taking it in their Junior or Senior year.

III NORMAL AND ABNORMAL EMOTIONS AND WILL. Lectures and reports. A systematic general account of the emotions, the will, and human personality. A more detailed account of special phenomena, including anger, fear, the tender emotions, sympathy, the aesthetic emotions, the religious emotions, emotional prejudice, the motor value of ideas, suggestion and hypnotism, compulsive ideas, etc. *Tu., Th., at 10.* 15 F. H. PROFESSOR DODGE. (IX)

Course III is elective for those who have taken Course I.

IV EDUCATIONAL PSYCHOLOGY. Lectures and required readings aiming to give a psychological insight into the problems of education, including the theory and practice of mental

tests, with actual testing in schools. In conjunction with Course I, this course is planned to meet the requirements in educational psychology of those states and cities which demand the professional training of teachers, but it is also intended to serve the needs of those whose interest in the psychological problems of education is non-professional. *Mon., Wed., Fri., at 8.* 14 F. H. ASSISTANT PROFESSOR HUMPHREY. (I)

Course IV is elective for those who have taken Course I.

V. HISTORY OF PSYCHOLOGY. Lectures, reports, and critical reading of selected psychological classics. The course aims to trace the development of psychological thought from the Greeks to modern times, and to orient the student in the conflicting tendencies of the present day. *Mon., 4-6 p. m., counting as two hours.* 29 F. H. ASSISTANT PROFESSOR HUMPHREY. (XII)

Course V is elective for those who have taken Course I.

\*VI LABORATORY COURSE. Experimental study of special problems. *Mon., 7-9 p. m., counting as one hour.* 22 F. H. PROFESSOR DODGE.

Course VI is elective, with the permission of the instructor, for those who have taken Course II.

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## ETHICS AND RELIGION.

ASSISTANT PROFESSOR CHANTER.

I THE ENGLISH BIBLE. An introductory course. The object of the course is to give a knowledge of the main outlines of the biblical literature, with sufficient attention to the results of critical scholarship to place the student in touch with the modern view of the value and authority of the Bible. *Mon., Wed., Fri., at 8.* 28 F. H. (I)

Course I is elective for Sophomores. It is given in alternate years with Course II.

[II THE ETHICS AND RELIGION OF THE BIBLE. First semester: Work and teaching of the prophets. Development of

ethical monotheism. Rise of Judaism. The development between the Testaments. Second semester: The teaching of Jesus. The development of thought in the early church. *Three times a week.*]

Course II is elective for those who have taken Course I or its equivalent. It is given in alternate years with Course I, and is omitted in 1920-21.

III ETHICS. An introductory course. First semester: Outlines of ethical theory. Second semester: Problems of individual and social ethics. *Mon., Wed., Fri., at 10.* 28 F. H. (III)

Course III is elective for Juniors.

IV SEMINARY IN THE HISTORY OF ETHICS. Studies in the great periods of ethical thought. *Th., 2-4 p. m., counting as two hours.* 24 F. H.

Course IV is elective for Seniors who have taken Course III or its equivalent, or a course in the history of philosophy, and have passed with a grade of at least B; and to others, whose standing in scholarship is high, by permission of the instructor.

## MATHEMATICS.

PROFESSORS HOWLAND AND CAMP; ASSISTANT PROFESSOR MATHEWS.

I<sup>1</sup> ELEMENTARY COLLEGE MATHEMATICS. Courses I and II together comprise a single, unified course, designed primarily for those who do not intend to take advanced courses in mathematics or in the exact sciences. They are a sufficient preparation, however, for Course I in physics, and for Course I in astronomy. Special emphasis is laid on the applications of mathematics. Courses I and III together form a single unified course designed for those who may wish to take other courses in mathematics or to study the exact sciences. SECTION 1, *Mon., Wed., Fri., at 8*; SECTIONS 2 and 3, *Mon., Wed., Fri., at 9*; SECTION 4, *Mon., Wed., Fri., at 10*; SECTION 5, *Tu., Th., Sat., at 8*; SECTIONS 6 and 7, *Tu., Th., Sat., at 9*; SECTION 8, *Tu., Th., Sat., at 10 (first half-year).*

25 and 26 O. H. PROFESSORS HOWLAND and CAMP, and ASSISTANT PROFESSOR MATHEWS. (XIV)

Course I is elective for those who have not presented for admission both trigonometry and advanced algebra.

II<sup>2</sup> ELEMENTARY COLLEGE MATHEMATICS. Continuation of Course I. Sections to be arranged (*second half-year*). 25 and 26 O. H. PROFESSOR CAMP, and ASSISTANT PROFESSOR MATHEWS. (XIV)

Course II is elective for those who have taken Course I.

III<sup>2</sup> ELEMENTARY COLLEGE MATHEMATICS. Continuation of Course I. Sections to be arranged (*second half-year*). 25 and 26 O. H. PROFESSORS HOWLAND and CAMP, and ASSISTANT PROFESSOR MATHEWS. (XIV)

Course III is elective for those who have taken Course I.

IV ALGEBRA, PLANE AND SOLID ANALYTIC GEOMETRY. The course is designed for those who have already had some elementary college mathematics and who are preparing to take more advanced courses in this department or in the field of exact science. *Mon., Wed., Fri., at 11.* 26 O. H. PROFESSOR HOWLAND. (XIV)

Course IV is elective for those who have not taken Course III, and either have presented for admission trigonometry and advanced algebra or have taken Course II. It is elective, with the permission of the instructor, also for those who have taken only Course I.

Candidates for the degree of Ph. B. who have not presented for admission one unit of advanced mathematics must take Courses I and II, except that Course III may be substituted with the permission of the instructor for Course II; those who have presented only one-half unit of advanced mathematics must take Course I.

Candidates for the degree of B. S. who have not presented for admission trigonometry and advanced algebra are required to take Courses I and III; those who have presented both these subjects are required to take Course IV.

**\*V SURVEYING.** The theory and use of chain, tape, compass, level, and transit; surveying methods, problems, and computations, together with practical field and office work; spherical trigonometry. *Tu., Th., at 8, and two hours of field work, four hours counting as three.* 26 O. H. ASSISTANT PROFESSOR MATHEWS. (VII)

Course V is elective, with the permission of the instructor, for those who have taken Course I, and for Freshmen who have taken a course in trigonometry.

[VI DESCRIPTIVE GEOMETRY AND MECHANICAL DRAWING. Lectures and recitations, based on text-books, together with practice in the draughting room. Problems in descriptive geometry are taken up relating to points, lines, planes, and surfaces, their intersections and developments, etc. The course includes also the care and use of drawing instruments, mechanical drawing from objects, sketching, lettering, dimensioning, etc. *Six (counting as three) hours for the year.*]

Course VI is elective for those who have taken Course I, or its equivalent. It is omitted in 1920-21.

VII DIFFERENTIAL AND INTEGRAL CALCULUS. Elementary course. *Mon., Wed., Fri., at 10.* 26 O. H. PROFESSOR HOWLAND. (III)

Course VII is elective for those who have taken Course III or Course IV.

VIII<sup>2</sup> ANALYTIC GEOMETRY. Advanced course, beginning with a review of plane analytic geometry and extending into the subject of solid analytic geometry. *Tu., Th., Sat., at 10 (second half-year).* 25 O. H. PROFESSOR HOWLAND. (IX)

Course VIII is elective for those who have taken Course III or Course IV.

[\*IX<sup>2</sup> THE FUNDAMENTAL CONCEPTS OF MATHEMATICS. In this course the fundamental concepts of elementary algebra and geometry will be considered in the light of recent investigations in this field. The course is intended for those who are interested in the logical aspects of mathematics and for those who expect to teach the elementary branches of the subject. *Three times a week (second half-year).*]



Course IX is elective, with the permission of the instructor, for those who have taken a course in analytic geometry. It is omitted in 1920-21.

**X<sup>1</sup> HIGHER ALGEBRA.** An introduction to some of the important branches of higher algebra: properties of polynomials, systems of linear equations, linear transformations, invariants, quadratic forms, etc. *Tu., Th., Sat., at 10 (first half-year).* 25 O. H. PROFESSOR HOWLAND. (IX)

Course X is elective for those who have taken Courses III or IV, and VII.

**XI<sup>1</sup> PROBABILITY AND PHYSICAL MEASUREMENTS.** The elements of probability, the law of errors, measures of precision and rules for computation, cumulative errors, weights, least squares. *Mon., Wed., Fri., at 1 (first half-year).* 26 O. H. PROFESSOR CAMP. (V)

Course XI is elective for those who have taken, or are taking, Course VII.

**XII<sup>2</sup> PROBABILITY AND STATISTICS.** Frequency distributions, averages and measures of dispersion, the Lexian ratio, sampling, correlation, interpolation, the method of moments. *Mon., Wed., Fri., at 1 (second half-year).* 26 O. H. PROFESSOR CAMP. (V)

Course XII is elective for those who have taken Course XI.

Students interested in economics or social science are advised to take VI Economics either the year before, or the same year as, they take XII Mathematics.

**XIII MECHANICS.** Statics of rigid bodies and of other systems of particles, including as much of the theory of strings as is necessary to the study of cables hanging freely or supporting a bridge. The motion of particles under constant and under variable forces, including the study of impulsive forces, and of elasticity, and the usual introduction to celestial mechanics. An elementary treatment of the motion of a rigid body. *Mon., Wed., Fri., at 11.* 23 O. H. PROFESSOR CAMP. (IV)

Course XIII is elective for those who have taken Course VII.

**[XIV CALCULUS.** Second course, including, in the first half-year, a more extended discussion of some of the subjects

introduced in Course VII, and in the second half-year an introduction to the theory of differential equations, with applications to geometry, mechanics, and physics. *Three times a week.* PROFESSOR HOWLAND.]

Course XIV is elective for those who have taken Course VII. It is omitted in 1920-21.

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## ASTRONOMY.

PROFESSOR SLOCUM.

I DESCRIPTIVE ASTRONOMY. A general introduction to the subject, dealing with the fundamental conceptions of the celestial sphere, astronomical instruments, the earth, moon, sun, planets, and their satellites, comets, meteors, stars, nebulae, and a brief outline of modern cosmogonies. Recitations, lectures, constellation study, and frequent use of the telescope. *Mon., Wed., Fri., at 1.* VAN VLECK OBS. (V)

Course I is elective for those who have taken Course I, or are taking Course III, in mathematics, or who have presented trigonometry for admission.

II PRACTICAL ASTRONOMY. Use of sextant, transit, zenith telescope, chronometer, and chronograph for solving such problems as time, latitude, longitude, and azimuth as used in astronomy, geodesy, and navigation. Use of equatorial telescope for simple observations. Methods of computation. *Tu., Th., at 1, and two hours of observations, four hours counting as three.* VAN VLECK OBS. (XI)

Course II is elective for those who have taken Course I, or are taking Course III, in mathematics, or who have presented trigonometry for admission.

III<sup>2</sup> HISTORY OF ASTRONOMY. A rapid survey of the development of the science from its origin down to the present time. Lectures, collateral reading, reports. *Mon., Wed., Fri., at 10.* VAN VLECK OBS. (III)

Course III is elective for Sophomores. It may not be elected by those who have taken, or who are taking, Course I.

[IV SPHERICAL ASTRONOMY AND OBSERVATORY PRACTICE. Spherical coördinates. Aberration, precession, and nutation. Reduction and determination of positions of fixed stars. Proper motion and parallax. Star catalogues. Theory and adjustment of the equatorial. Use of the micrometer and comparator for measuring double stars, positions of planetoids, comets, etc. *Three times a week.*]

Course IV is elective for those who have taken Course II in astronomy and Course VII in mathematics. Courses IV and V ordinarily are given in alternate years, but both are omitted in 1920-21.

[V ASTROPHYSICS. Theory and use of the spectroscope, photometer, and astronomical camera. Spectroscopic study of the sun and stars. Binary systems. Variable stars. Measurement of spectra and direct photographs. *Two lecture hours and two hours of observations, four hours counting as three.*]

Course V is elective for those who have taken Courses I and II, or Course III, in astronomy, and Course VII in mathematics. It is omitted in 1920-21.

[\*VI INTRODUCTION TO CELESTIAL MECHANICS. Laws of motion. Study of parabolic and elliptic orbits. *Three times a week.*]

Course VI is elective, with the permission of the instructor, for those who have taken Course IV. It is omitted in 1920-21.

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## PHYSICS.

PROFESSORS CRAWFORD AND CADY; ASSISTANT PROFESSOR POWERS.

I ELEMENTARY PHYSICS. A general course, following a standard text-book. Two demonstration lectures and a two-hour laboratory period weekly, and, in addition, at the discretion of the instructors, a third hour weekly for supplementary lecture, discussion, or examination. *Tu., Th., Sat., at 11, with an additional two-hour laboratory period, counting as three hours.* PROFESSORS CRAWFORD AND CADY, and ASSISTANT PROFESSOR POWERS. (X)

Course I is elective for those who have presented trigonometry for admission, or who are taking, or have taken, Course I in mathematics.

II ELEMENTARY PRACTICAL PHYSICS. The course includes elementary experiments in all the principal branches of physics, and may advantageously be taken with Course I, extending the laboratory practice of that course. *Five (counting as two) hours a week. With permission of the instructor, the course may be elected for two and one-half (counting one) or seven and one-half (counting three) hours.* S. L. PROFESSORS CRAWFORD and CADY, and ASSISTANT PROFESSOR POWERS.

Course II is elective for those who are taking Course I, or who have taken Course I or its equivalent.

[III SOUND. A general treatment of the phenomena of sound. Text-book and lectures, with demonstrations, and with laboratory practice about once a week. *First half-year.* PROFESSOR CRAWFORD.]

Course III is elective for those who have taken Course I. It is omitted in 1920-21.

[IV GEOMETRICAL AND PHYSICAL OPTICS. Lectures, text-book, collateral reading, and occasional laboratory practice. The course includes reflection, refraction, optical systems, interference, diffraction, polarization, the spectrum and its limits, photometry, and spectrophotometry. *Three times a week.* ASSISTANT PROFESSOR POWERS.]

Course IV is elective for those who have taken Course I in physics and Course VII in mathematics.

V<sup>1</sup> HEAT. A general course in the subject, omitting thermodynamics. Text-book and lectures, with demonstrations, and with frequent laboratory practice. *Tu., Th., Sat., at 8 (first half-year).* 40 S. L. PROFESSOR CRAWFORD. (VII)

Course V is elective for those who have taken Course I.

VI<sup>2</sup> THERMODYNAMICS. Text-book and lectures on the elements of thermodynamics, with special application to the steam engine and the internal combustion engine, and with

opportunity for some elementary exercises in engine testing. *Tu., Th., Sat., at 8 (second half-year).* 40 S. L. PROFESSOR CRAWFORD. (VII)

Course VI is elective for those who have taken Course V, and who are taking, or have taken, Course VII in mathematics.

VII APPLICATIONS OF ELECTRICITY AND MAGNETISM. Text-book, lectures, and laboratory practice. A descriptive course in electricity and magnetism, with special reference to the elements of telegraphy and telephony, electric lighting, the electric furnace, storage batteries, X-rays, and electrical machinery. *Mon., Wed., Fri., at 9.* 34 S. L. PROFESSOR CADY. (II)

Course VII is elective for those who have taken Course I or its equivalent.

VIII EXPERIMENTAL ELECTRICITY. Laboratory practice in electricity and magnetism, with occasional lectures. Opportunity is afforded for some shop-work. *Five (counting as two) hours a week. With permission of the instructor, the course may be elected for seven and one-half (counting three) hours.* S. L. PROFESSOR CADY.

Course VIII is elective for those who have taken Courses I and III, and who have taken, or are taking, Course VII.

IX<sup>1</sup> DYNAMOS, MOTORS, AND TRANSFORMERS. Text-book and lectures on the elements of direct and alternating current machinery, with laboratory tests by the class. Use is made of the steam engine and generator at the boiler house. *Tu., Th., Sat., at 9 (first half-year).* S. L. PROFESSOR CADY. (VIII)

Course IX is elective for those who have taken Courses II and VII. It is advisable, though not necessary, to take Course VII in mathematics before electing this course.

X<sup>2</sup> THE CONSTITUTION OF MATTER. Text-book, lectures, and collateral reading on conduction of electricity through gases, elements of the electron theory, analysis of crystal structure by X-rays, and nature of the atom. *Tu., Th., Sat., at 9 (second half-year).* 34 S. L. PROFESSOR CADY. (VIII)

Course X is elective for those who have taken Courses VII in physics and VII in mathematics.

[XI ADVANCED ELECTRICITY. Text-book and lectures on the elementary mathematical theory of electricity and magnetism. The second half-year is devoted to radio-telegraphy, and the work is in part experimental. *Three times a week.* PROFESSOR CADY.]

Course XI is elective for those who have taken Courses II and VII in physics, and Course VII in mathematics. It is omitted in 1920-21.

XII PRACTICAL PHYSICS. Careful measurements in mechanics, heat, sound, and light. *Five, or seven and one-half, hours a week; counting as two or three hours respectively.* S. L. PROFESSOR CRAWFORD.

Course XII is elective for those who have taken Course II. Those electing it will be expected to take, or to have taken, one or more of Courses III-VII.

XIII ADVANCED EXPERIMENTAL ELECTRICITY. Selected problems in electricity and magnetism, particularly in alternating currents, electric oscillations, and discharge through gases. *Five, or seven and one-half, hours a week, counting as two or three hours respectively.* S. L. PROFESSOR CADY.

Course XIII is elective for those who have taken Course VIII in physics and Course VII in mathematics, and who have taken, or are taking, Course IX, X, or XI in physics.

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Students planning to specialize in physics are advised to elect as many as practicable of the following courses in other departments: Mathematics XI, XIII, and XIV; Chemistry II, IV, V, IX.

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## CHEMISTRY.

PROFESSOR HOOVER; ASSOCIATE PROFESSOR HILL; MR. CAVELTI.

I ELEMENTARY CHEMISTRY. A general introductory course, largely descriptive, consisting of two demonstration lectures or class discussions, one supplementary lecture or discussion at the discretion of the instructor, with one three-hour laboratory period, counting as *three* hours. Lectures,

*Tu., Th., at 9.* Laboratory, *Wed., 1-4, Th., 1-4, or Fri., 1-4.* Supplementary lecture, *Sat., at 9.* 3 J. H. PROFESSOR HOOVER. (XII)

Course I is elective for students beginning the study of chemistry, and, with the permission of the instructor, for those whose previous training does not fit them for Course II. Students who receive credit in chemistry on admission to college, but who take this course, will be given one and one-half hours credit.

**IA<sup>2</sup> ELEMENTARY THEORETICAL INORGANIC CHEMISTRY.** A review of the elementary theories and laws of chemistry, with special emphasis upon the theories of solution and chemical equilibrium, presented by lectures and class discussions. *Mon., Wed., Fri., at 10 (second half-year).* 3 J. H. PROFESSOR HOOVER. (III)

Course I A is elective for those who are taking, or who have taken, Course I. It is designed to prepare such students for further work in chemistry and in other sciences.

**II INORGANIC CHEMISTRY.** A somewhat advanced course, designed to give an appreciation of the importance of the metals in daily life, and to serve as a preparation for further study. The laboratory work consists largely of inorganic preparations and experiments illustrating the general principles of chemistry. Two lectures or class discussions, one supplementary lecture or discussion at the discretion of the instructor, with one three-hour laboratory period, counting as three hours. Lectures, *Mon., Wed., at 9.* Laboratory, *Mon., 1-4, or Tu., 1-4.* Supplementary lecture, *Fri., at 9.* 3 J. H. ASSOCIATE PROFESSOR HILL. (XII)

Course II is elective for students who have received credit for chemistry on admission. Other students who have pursued a course in chemistry in a secondary school may elect Course II, provided they submit a satisfactory laboratory note-book and pass an examination to be arranged in consultation with the department of chemistry on or before the first Saturday of the college year. Students admitted to this course may be asked to change to Course I if their preparation does not seem to justify their continuing in an advanced course.

III QUALITATIVE ANALYSIS. A laboratory course in basic and acid analysis, with lectures and class discussions on the application of the principles of theoretical chemistry to qualitative analysis. The course consists of one lecture and two three-hour laboratory periods, counting as three hours. Lecture, *Tu.*, at 10. Laboratory, *Tu.*, *Th.*, 1-4. CHEM. LAB. MR. CAVELTI. (IX)

Course III is elective for those who have taken Course II, or Courses I and I A.

IV ELEMENTARY ORGANIC CHEMISTRY. A general descriptive course in the chemistry of the compounds of carbon, emphasizing the practical applications. Combined with Course I or Course II it affords the student not specializing in chemistry an appreciation of the main facts of this science. It also forms a foundation for further work in organic chemistry and for the study of medicine. Two lectures or class discussions and one four-hour laboratory period, counting as three hours. Lectures, *Mon.*, *Wed.*, at 1. Laboratory, *Mon.*, 2-6, or *Wed.*, 2-6. J. H. ASSOCIATE PROFESSOR HILL. (V)

Course IV is elective for those who have taken Course I or Course II.

V ELEMENTARY QUANTITATIVE ANALYSIS. A laboratory course in gravimetric and volumetric analysis, with lectures and class discussions. The course consists of one lecture and two three-hour laboratory periods, counting as three hours. Lecture, *Tu.*, at 1. Laboratory, *Wed.*, *Fri.*, 1-4. MR. CAVELTI. (XI)

Course V is elective for those who have taken Course III.

VI INDUSTRIAL CHEMISTRY. Lectures, collateral reading, and occasional excursions. The purpose of this course is to give a general idea of the chemical processes involved in modern industry, and of the principles underlying chemical manufacture. In a few processes the details of manufacture are studied. *Tu.*, *Th.*, *Sat.*, at 11. J. H. PROFESSOR HOOVER. (X)

Course VI is elective for those who take, or who have taken, Course III.



VII PHYSICAL CHEMISTRY. A course in elementary theoretical and physical chemistry. There are two lectures and one laboratory period or discussion each week, counting as three hours. *Mon., Wed., Fri., at 8.* I J. H. PROFESSOR HOOVER. (I)

Course VII is elective for those who have taken, or who are taking, Courses III and V. It is advisable, though not necessary, to have taken, or to be taking, Course VII in mathematics.

VIII ADVANCED ORGANIC CHEMISTRY. A course consisting of lectures, recitations, and laboratory exercises. The lecture work deals with the advances in the fields of theoretical and synthetic organic chemistry. The laboratory work consists of important syntheses, not studied in Course IV, combustion analysis, and a group of experiments chosen to illustrate research methods. The course counts as three hours. *Lectures, Mon., Wed., at 3; and four hours in the laboratory.* CHEM. LAB. ASSOCIATE PROFESSOR HILL.

Course VIII is elective for those who have taken Course IV, and who are taking, or have taken, Course V.

[IX CHEMISTRY SEMINARY. Lectures, assigned reading, and reports on the historical development and present status of theoretical chemistry. *Three times a week.* PROFESSOR HOOVER.]

Course IX is elective for those who have taken Courses III and IV, and who have taken, or are taking, Course VII. It is omitted in 1920-21.

X ADVANCED QUANTITATIVE ANALYSIS. A course in modern industrial quantitative analysis. Selected methods for the analysis of ferrous and non-ferrous alloys, minerals and ores, soaps, oils, fats, waxes, and illuminating and flue gases. During the latter part of the year the laboratory work is along lines selected by the individual students, and the lecture material deals with metallography and physical testing. *Lectures, Mon., at 1. Laboratory, Th., Fri., 1-5.* CHEM. LAB. MR. CAVELTI. (V)

Course X is elective for those who have taken Courses IV and V.

[XI PHYSIOLOGICAL CHEMISTRY. Lectures, recitations, and laboratory work. The following subjects will be considered: Enzymes, fats, carbohydrates, proteins, digestion, absorption, nutrition, blood, milk, composition and analysis of urine. *Three times a week.*]

Course XI is elective for those who have taken, or are taking, Course IV in chemistry and Course I in biology. It is omitted in 1920-21.

\*XII INORGANIC RESEARCH. Investigation of special problems in analytical and physical chemistry. PROFESSOR HOOVER.

Course XII is elective, with the permission of the instructor, for graduate students.

\*XIII ORGANIC RESEARCH. Investigation of special problems in synthetic, theoretical, and applied organic chemistry. ASSOCIATE PROFESSOR HILL.

Course XIII is elective, with the permission of the instructor, for graduate students.

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## GEOLOGY.

ASSOCIATE PROFESSOR FOYE.

I<sup>1</sup> PHYSIOGRAPHY. The study of the earth's surface, and the forces which have moulded it into its present form. Lectures and laboratory work. *Mon., Wed., Fri., at 10 (first half-year).* 8 J. H. (XVIII)

Course I is elective for Freshmen.

II<sup>2</sup> STRUCTURAL GEOLOGY. The minerals and rocks forming the earth's crust, their structure, and the forces which have formed and altered them. Lectures, laboratory, and field work. *Mon., Wed., Fri., at 10 (second half-year).* 8 J. H.

Course II is elective for those who have taken Course I, and who take, or have taken, I or II Chemistry. (XVIII)

III<sup>1</sup> HISTORICAL GEOLOGY. The history of the earth as revealed in the sedimentary rocks. Lectures and laboratory work. *Three times a week (first half-year).*

Course III is elective for those who have taken I and II Geology, and I Biology.

IV<sup>2</sup> REGIONAL GEOLOGY OF THE UNITED STATES. The geography, historical and economic geology of limited portions of the United States. *Three times a week (second half-year).*

Course IV is elective for those who have taken Courses I-III.

V<sup>1</sup> METEOROLOGY. A course designed to give a knowledge of the laws controlling weather and climate. Lectures and laboratory work. *Mon., Wed., Fri., at 9 (first half-year).* J. H. (II)

Course V is elective for those who have had, in school or college, a course each in chemistry and physics. It is given in alternate years with Courses VI and VII.

[VI<sup>1</sup> CRYSTALLOGRAPHY AND DETERMINATIVE MINERALOGY. A study of the crystallography and chemistry of the commoner minerals. *Three recitations and four laboratory hours a week, counting as four hours.*]

Course VI is elective for those who have had solid geometry, and a college course in chemistry.

[VII<sup>2</sup> DESCRIPTIVE MINERALOGY. The properties, occurrences, and uses of the commoner minerals. *Three recitations and four laboratory hours a week, counting as four hours.*]

Course VII is elective for those who have taken Course VI. Students who elect this course are strongly advised to take also I and II Geology, if they have not already done so.

Courses VI and VII are omitted in 1920-21.

\*VIII<sup>2</sup> GEOLOGY SEMINARY. Lectures, readings, and reports on field and laboratory problems in structural geology. *Mon., Wed., Fri., at 2 (second half-year).* J. H. (VI)

Course VIII is elective, with the permission of the instructor, for those who have taken Courses I, II, III, and IV.

## BIOLOGY.

PROFESSOR SCHNEIDER; ASSOCIATE PROFESSORS GOODRICH AND WOODS.

I GENERAL BIOLOGY. An introduction to the biological sciences. This course, touching briefly upon the more important problems of modern biology, includes a study of a few representative plant and animal types, with special emphasis on the structure and physiology of the frog. SECTION 1, *Tu., Th., at 10*; SECTION 2, *Tu., Th., at 11, with a supplementary hour at the discretion of the instructor, and one three-hour laboratory period, the course counting as three hours.* 8 J. H. ASSOCIATE PROFESSOR WOODS. (XVII)

Course I is elective for Freshmen. It is a prerequisite for advanced courses in the department, and is necessary for students preparing to enter medical colleges.

[II BOTANY. A general course. During the fall and winter terms the structure of the various groups of plants from the bacteria to the flowering plants is studied. During the spring term the lectures are devoted to the physiology and ecology of plants, and the laboratory work to flower analysis and the preparation of an herbarium. *Two lectures and two two-and-one-half hour laboratory periods a week, counting as four hours.* ASSOCIATE PROFESSOR WOODS.]

Course II is elective for those who have taken Course I. It is omitted in 1920-21.

III. ENTOMOLOGY. A general course, dealing with the structures, habits, life histories, and classification of insects. Representative types are studied in each group, with special emphasis on forms injurious in agriculture or concerned in the transmission of disease. *Tu., Th., at 8, and one three-hour laboratory period, counting as three hours.* 8 J. H. ASSOCIATE PROFESSOR WOODS. (VII)

Course III is elective for those who have taken Course I. It is given in alternate years with Course II.

IV SANITARY SCIENCE. This course deals with public health problems and activities, and disease control. Some of the topics included are: Death and its causes, ancient and

modern theories of disease, classifications of diseases, direct and predisposing causes of disease, means of avoiding and resisting disease, vehicles of disease such as dust, sewage, water, milk, etc., brief sketch of the transmissible and epidemic diseases, prophylaxis, special community problems. *Tu., Th., at 8.* 34 S. L. PROFESSOR SCHNEIDER. (VII)

Course IV is elective for Sophomores.

VI<sup>1</sup> INVERTEBRATE ZOÖLOGY. The course treats primarily of the anatomy, physiology, and natural history of representative types of the lower or invertebrate animals. *Mon., Wed., at 9, and two two-and-one-half hour laboratory periods a week (first half-year), counting as four hours.* 8 J. H. ASSOCIATE PROFESSOR GOODRICH. (II)

Course V is elective for those who have taken Course I.

VI<sup>2</sup> VERTEBRATE ZOÖLOGY. The course treats primarily of the comparative anatomy of the vertebrates. Especial emphasis is placed in laboratory work on the dissection of the dog-fish and the cat. *Mon., Wed., at 9, and two two-and-one-half hour laboratory periods a week (second half-year), counting as four hours.* ASSOCIATE PROFESSOR GOODRICH. (II)

Course VI is elective for those who have taken Course I. This course, with Course I, will meet the requirements of most medical colleges.

VII PHYSIOLOGY AND PERSONAL HYGIENE. Lectures, recitations, and demonstrations dealing with the structures, activities, and care of the human body. *Mon., at 2; Tu., Th., at 9.* 8 J. H. PROFESSOR SCHNEIDER. (VIII)

Course VII is elective for those who have taken Course I. A course in chemistry is also desirable.

VIII EXPERIMENTAL PHYSIOLOGY. A laboratory course, covering the following subjects: The general physiology of muscle and nerve tissues; phenomena of circulation; composition and function of blood; respiratory exchanges, movements, and control; digestion and absorption. *One three-hour laboratory period a week, counting as one hour.* 26 S. L. PROFESSOR SCHNEIDER.

Course VIII is elective for those who have taken Course I, a course in chemistry, and who have taken, or who are taking, Course VII. The course may most profitably be taken as a parallel course to Course VII.

IX ORGANIC EVOLUTION AND GENETICS. The first part of the course presents a brief review of the animal kingdom, with especial reference to extinct forms of life, prehistoric man, and the course of evolution. The second part deals with the theories of the cause and progress of evolution, and with related problems, including such topics as genetics and eugenics. The work includes assigned readings from Darwin and other writers. *Mon., Wed., Fri., at 1.* 8 J. H. ASSOCIATE PROFESSOR GOODRICH. (V)

Course IX is elective for Juniors.

\*X BACTERIOLOGY. A general course in bacteriology. The laboratory covers the following subjects: Apparatus, culture media and methods of preparation, methods of sterilization, microscopic characteristic of cultures of bacteria, methods of diagnosis and of obtaining pure cultures, bacteriological investigations of air, soil, water, and milk. *Tu., Th., at 1, and five hours in the laboratory, counting as four hours.* 8 J. H. and 24 S. L. PROFESSOR SCHNEIDER. (XI)

Course X is elective, with the permission of the instructor, for those who have taken Course I and a course in chemistry. Course IV is also recommended.

XI<sup>1</sup> HISTOLOGY AND MICROSCOPIC ANATOMY. A laboratory course based on a study of mammalian and human tissues. The technique of preparation of microscopic slides is taught. Each student prepares for himself a representative permanent collection of microscopic slides of tissues. *Seven and one-half laboratory hours (first half-year).* J. H. ASSOCIATE PROFESSOR GOODRICH.

Course XI is elective for those who have taken Course VI, for those who took Course I A— in 1918-19, and for others with the permission of the instructor.

XII<sup>2</sup> EMBRYOLOGY. A laboratory course, based chiefly on a study of the chick. Serial sections and living embryos are

studied. Lectures at specially arranged hours accompany the course. *Seven and one-half laboratory hours (second half-year).* J. H. ASSOCIATE PROFESSOR GOODRICH.

Course XII is elective for those who have taken Course XI, and for others with the permission of the instructor.

#### SCHOLARSHIP IN BIOLOGY.

A scholarship was founded in 1919 by action of the Board of Trustees of Wesleyan University to support work at the Marine Biological Laboratory at Woods Hole, Massachusetts. The expense in any one year is not to exceed \$125. This may be used to pay complete expenses for one student or in part for two students. Summer courses in invertebrate zoölogy, botany, embryology, physiology, and protozoölogy, and opportunities for research work are offered at the laboratory. The scholarships are open to all taking work in biology and application should be made to some member of the department.

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### PHYSICAL EDUCATION.

#### PROFESSOR FAUVER.

I PHYSICAL TRAINING—ELEMENTARY COURSE. During the first term, students are required to elect work in football, track, or tennis. In the second term, from Thanksgiving to Christmas, all are required to take systematic gymnastic work. After Christmas, all who have passed a satisfactory medical examination and certain physical efficiency tests may substitute basket-ball, handball, squash, swimming, etc., for the gymnastic work. During the third term students elect work out of doors as in the first term. *Three times a week, the hours to be announced.*

Course I is required of Freshmen. It counts as one hour toward graduation, the quota for which is increased to 62 hours for those who are required to take Courses I and II in physical education.

II PHYSICAL TRAINING—ADVANCED COURSE. During the fall and spring Sophomores are required to elect work in football, baseball, track, tennis, or swimming. During the winter

they are required to elect work in advanced gymnastics, basketball, handball, squash, swimming, or track. *Three times a week, the hours to be announced.*

Course II is required of Sophomores. It counts as one hour toward graduation, the quota for which is increased to 62 hours for those who are required to take Courses I and II in physical education.

III ANATOMY AND KINESIOLOGY. First semester: a partial course in descriptive anatomy, including a study of bones, joints, and muscles. In addition, the course deals with the principles of mechanism of bodily movements, including a consideration of the following topics: importance of posture in relation to health of body; effects of various exercises on the tissues of the body, etc. Second semester: gymnastic work and athletics. *Mon., Wed., Fri., at 9, counting as two hours a week for the year.* GYMNASIUM. PROFESSOR FAUVER.

(II)

Course III is elective for Juniors who have taken I Physics, I Chemistry, I and VI Biology. Those who take the course are strongly urged to take the course in bacteriology. This course is intended especially for those who intend to teach.



## DAILY PROGRAM.

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The order of lectures and recitations is set forth in the table given on pages 108 and 109. Roman numerals preceding the names of certain studies refer to the numbers of the courses as enumerated in the foregoing statement of courses of instruction. Arabic numerals, following the names of certain studies, indicate the sections into which the classes are divided. The figures ' 1 ' and ' 2 ' preceding the number of the course indicate respectively first and second half-year.

# DAILY PROGRAM, 1920-1921.

Hour	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8.	XI Latin I Greek I German, 1 I French I Eng. Lang., 1 & 2 I Eng. Literature, 1 I History I Ethics I Mathematics, 1 I Mathematics VII Chemistry	I XIII Latin I Greek I German, 1 I French I Eng. Lang., 1 & 2 I Eng. Literature, 1 I History I Ethics I Mathematics, 1 I Mathematics IV Physics I Mathematics I Biology IV Biology	XI Latin I Greek I German, 1 I French I Eng. Lang., 1 & 2 I Eng. Literature, 1 I History I Ethics I Mathematics, 1 I Mathematics VII Chemistry	I XIII Latin I Greek I German, 1 I French I Eng. Lang., 1 & 2 I Eng. Literature, 1 I History I Ethics I Mathematics, 1 I Mathematics IV Physics I Mathematics I Biology IV Biology	XI Latin I Greek I German, 1 I French I Eng. Lang., 1 & 2 I Eng. Literature, 1 I History I Ethics I Mathematics, 1 I Mathematics VII Chemistry	I XIII Latin I Greek I German, 1 I French I Eng. Literature, 1 I History I Ethics I Mathematics, 1 I Mathematics IV Physics I Mathematics I Biology IV Biology
9.	III German I French, 2 III French, 1 II Spanish I Economics, 1 & 2 I Philosophy I Mathematics, 2 & 3 VII Physics I Chemistry IV Geology I Biology III Phys. Education	VIII Latin I Greek I German I French I Spanish I Eng. Lang., 1 I Public Speaking, 1 I History I Economics I Mathematics, 6 & 7 I Physics I Chemistry VII Biology	III German I French, 2 III French, 1 II Spanish I Eng. Lang., 1 I Public Speaking, 3 I Economics, 1 & 2 I Philosophy I Mathematics, 2 & 3 VII Physics I Chemistry IV Geology I Biology I Phys. Education	VIII Latin I Greek I German I French I Spanish I Eng. Lang., 1 I Public Speaking, 1 I History I Economics I Mathematics, 6 & 7 I Physics I Chemistry VII Biology	III German I French, 2 III French, 1 II Spanish I Eng. Lang., 1 I Economics, 1 & 2 I Philosophy I Mathematics, 2 & 3 VII Physics I Chemistry IV Geology III Phys. Education	VIII Latin I Greek I German I French I Spanish I Eng. Lang., 1 I Economics, 1 & 2 I Philosophy I Mathematics, 6 & 7 I Physics I Chemistry
10.	II French, 2 II Italian I Spanish, 1 II Eng. Literature II History VIII Economics VIII Ethics I Mathematics, 4 VII Mathematics VII Astronomy I Chemistry I Geology I Geology	I IV Latin I Greek I German I French, 3 III French, 2 I English I Eng. Literature, 2 I Public Speaking, 2 I Economics I Mathematics, 4 I Mathematics I Astronomy I Chemistry I Mathematics, 8	II French, 2 II Italian I Spanish, 1 II Eng. Literature II Public Speaking, 4 II History VIII Economics III Ethics I Mathematics, 4 VII Mathematics VII Astronomy I Chemistry	I IV Latin I Greek I German I French, 3 III French, 2 I English I Eng. Literature, 2 I Economics I Mathematics, 4 I Mathematics I Astronomy I Chemistry I Mathematics, 8	II French, 2 I Italian I Spanish, 1 II Eng. Literature II History VIII Economics III Ethics I Mathematics, 4 VII Mathematics VII Astronomy I Chemistry I Geology I Geology	I IV Latin I Greek I German I French, 3 III French, 2 I Eng. Literature, 2 I Economics I Mathematics, 8 I Mathematics I Chemistry

# DAILY PROGRAM, 1920-1921—(Continued).

Hour	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
10. Con.		<p>*VIII Mathematics *IX Mathematics III Chemistry I Biology, 1</p> <p>I Latin, 2 *VIII Greek I German, 3 III Eng. Literature IX History, 2 III Economics IX Eng. Literature I Philosophy, 3 I Psychology, 3 I Physics VI Chemistry I Biology, 2</p>	<p>*I Geology *II Geology</p> <p>I Latin, 1 VII Greek III Sc. German V German I French, 3 IX Eng. Literature I Eng. Lang., 3 &amp; 4 V Economics I Philosophy, 1 &amp; 2 I Psychology, 1 &amp; 2 IV Mathematics XIII Mathematics</p>	<p>*IX Mathematics I Biology, 1</p> <p>I Latin, 2 *VIII Greek I German, 3 III Eng. Literature II Public Speaking, 2 IX History, 2 III Economics I Philosophy, 3 I Psychology, 3 I Physics VI Chemistry I Biology, 2</p>		<p>I Latin, 2 I German, 3 III Eng. Literature IX History, 2 III Economics IX Eng. Literature I Philosophy, 3 I Psychology, 3 &amp; 4 V Economics I Philosophy, 1 &amp; 2 I Psychology, 1 &amp; 2 IV Mathematics XIII Mathematics</p>
1.	<p>A Greek I German, 2 II German, 2 I Eng. Lang., 5 &amp; 6 V History II Economics IXI Mathematics *XII Mathematics I Astronomy IV Chemistry X Chemistry IX Biology</p>	<p>III Public Speaking, 1 I History II Astronomy V Chemistry X Biology</p>	<p>A Greek I German, 2 II German, 2 I Eng. Lang., 5 &amp; 6 V History II Economics IXI Mathematics *XII Mathematics I Astronomy IV Chemistry IX Biology</p>	<p>II Public Speaking, 3 I History II Astronomy X Biology</p>	<p>A Greek I German, 2 II German, 2 I Eng. Lang., 5 &amp; 6 V History II Economics IXI Mathematics *XII Mathematics I Astronomy IX Biology</p>	
2.	<p>I French, 4 II French, 4 I Spanish, 2 *VII Eng. Literature *II Eng. Language I Economics, 3 &amp; 4 VI Economics IV Philosophy *VIII Geology</p>	<p>A Greek III Public Speaking, 2</p>	<p>I French, 4 II French, 4 I Spanish, 2 VIII Eng. Literature *II Eng. Language I Public Speaking, 5 I Economics, 3 &amp; 4 VI Economics IV Philosophy *VIII Geology</p>	<p>II Public Speaking, 4</p>	<p>I French, 4 II French, 4 I Spanish, 2 *VIII Eng. Literature *II Eng. Language I Economics, 3 &amp; 4 VI Economics IV Philosophy *VIII Geology</p>	
3.	<p>V Eng. Language VIII Chemistry</p>	<p>III Eng. Language</p>	<p>V Eng. Language VIII Chemistry</p>		<p>V Eng. Language</p>	

## EXAMINATION GROUPS.

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No student is allowed to take more than one course in any of these groups, with the exception of those (bracketed together) which are not given in the same half-year or on the same day. The following courses are not assigned to any group, and may be elected without limitation: Hebrew; Public Speaking; X Economics; V Philosophy; VI Psychology; IV Ethics; II, VIII, XII, XIII Physics; VIII, XII, XIII Chemistry; III, IV Geology; VIII, XI, XII Biology; I, II Physical Education.

### I.

XI Latin.  
I Greek.  
II Greek.  
IV French.  
IV Psychology.  
I Ethics.  
VII Chemistry.

### II.

III German.  
II Spanish.  
IX Eng. Language.  
{ II Philosophy.  
{ III Philosophy.  
VII Physics.  
V Geology.  
{ V Biology.  
{ VI Biology.  
III Phys. Education.

### III.

I Italian.  
II Italian.  
II English Literature.  
II History.  
VIII Economics.  
III Ethics.  
VII Mathematics.  
III Astronomy.  
I A Chemistry.

### IV.

VII Latin.  
VII Greek.  
III Sc. German.  
V German.  
IX Eng. Literature.  
I Eng. Language.  
V Economics.  
{ I Philosophy.  
{ I Psychology.  
XIII Mathematics.

## V.

A Greek.  
 V History.  
 II Economics.  
 { XI Mathematics.  
 { XII Mathematics.  
 I Astronomy.  
 IV Chemistry.  
 X Chemistry.  
 IX Biology.

## VI.

I Spanish.  
 VIII Eng. Literature.  
 II Eng. Language.  
 VI Economics.  
 IV Philosophy.  
 VIII Geology.

## VII.

{ XIII Latin.  
 { XIV Latin.  
 B Greek.  
 IV German.  
 III Italian.  
 VIII History.  
 II Psychology.  
 V Mathematics.  
 { V Physics.  
 { VI Physics.  
 III Biology.  
 IV Biology.

## VIII.

VIII Latin.  
 III Greek.  
 VII German.

VI French.  
 III Spanish.  
 VIII Eng. Language.  
 IV History.  
 IV Economics.  
 IX Economics.  
 { IX Physics.  
 { X Physics.  
 VII Biology.

## IX.

{ IV Latin.  
 { V Latin.  
 IX Greek.  
 VIII German.  
 { VII French.  
 { VIII French.  
 VII Economics.  
 III Psychology.  
 { VIII Mathematics.  
 { X Mathematics.  
 III Chemistry.

## X.

I Latin.  
 VIII Greek.  
 III Eng. Literature.  
 IX History.  
 III Economics.  
 I Physics.  
 VI Chemistry.

## XI.

I History.  
 I Economics.  
 II Astronomy.  
 V Chemistry.  
 X Biology.

**XII.**

- V Psychology.
- I Chemistry.
- II Chemistry.

**XIII.**

- I French.
- II French.
- III French.

**XIV.**

- { I Mathematics.
- { II and III Mathematics.
- IV Mathematics.

**XV.**

- I German.
- II German.
- II Sc. German.

**XVI.**

- I Eng. Literature.

**XVII.**

- III Eng. Language.
- I Biology.

**XVIII.**

- V Eng. Language.
- { I Geology.
- { II Geology.

## REQUIREMENTS FOR GRADUATION.

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Physical education, three hours a week (counting one hour) for the year, is required of the three lower classes, beginning with the class of 1923. As this requirement first went into effect with the class of 1923, the requirement for graduation in the class of 1921 is *sixty hours*, in the class of 1922 *sixty-one hours*, in the class of 1923 and thereafter, *sixty-three hours*.

Course I English Language (three hours) is required of all students.

### I. GENERALIZATION (FRESHMAN AND SOPHOMORE YEARS).

In order to lay a broad foundation for the more concentrated work of the later years of the course, students are required to take in the first two years, in addition to I English Language, *nine* hours each from three groups of studies: (1) languages, (2) philosophy and social sciences, (3) mathematics and natural sciences. The specific courses which may be elected are as follows:

Group 1. Nine hours from courses in Latin, Greek, German, Romance languages.

Group 2. Nine hours from I History, IX History (American Government), I Economics, I Philosophy and I Psychology (making together a full year course), and I English Literature.

Group 3. Nine hours from Mathematics, I Astronomy, I Physics, I or II Chemistry, I and II Geology, and I Biology.

Certain courses from these three groups are specifically required of candidates for the three bachelor's degrees, as follows:

BACHELOR OF ARTS. Group 1: I Latin or I Greek; I and II German or I and II French, unless presented for admission.

(A student who elects both I Latin and I Greek, or who elects A Greek, B Greek, and I Greek, is required to take only one year of a modern language.)

**BACHELOR OF PHILOSOPHY.** Group 1: I and II German, and I and II French, unless presented for admission. Group 2: I Philosophy and I Psychology; either I or IX History; I Economics. Group 3: A course in mathematics, three hours for the year, unless an equivalent of advanced mathematics was presented for admission.

**BACHELOR OF SCIENCE.** Group 1: I and II German, and I and II French, unless presented for admission. Group 3: A course in mathematics, three hours for the year; I Physics and I Chemistry, unless one or both have been presented for admission. (If a student has presented elementary chemistry for admission, he must take I Physics in college; if he has presented elementary physics, he must take I Chemistry; if he has presented both, he must elect either I Physics or II Chemistry.)

Required courses must be taken in the first year in which the student is eligible for admission to them, except that a candidate for the B. S. degree who has received credit for admission in both physics and chemistry may postpone to the Sophomore year meeting the requirement of either I Physics or II Chemistry, in order to elect the introductory course in another department of science.

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#### REQUIREMENTS FOR CLASS OF 1922.

In place of the above, members of the class of 1922 are held to the requirements of the former group system. (See Catalogue for 1919-20, p. 110.)

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#### II. CONCENTRATION (JUNIOR AND SENIOR YEARS).

The program for the concentration group may be arranged at the beginning of the Sophomore year, and must be made up not later than the beginning of the Junior year by the student



in consultation with a professor of the department in which the major work is to be done, and with the approval of the Dean.

A student must elect a concentration group of *eighteen* hours' work, distributed in not to exceed three departments, and including no introductory course. (In addition to courses numbered A, B, or I in each department, II German, II French, IX History, II, III and IV Mathematics, II Physics, II Geology, and I A and II Chemistry shall be considered introductory courses.) A course whose content brings it about equally within the scope of two or more departments may, by agreement of the instructors concerned, be listed under each department, and considered for the purpose of this regulation as a course belonging to any department under which it is listed.

Of the eighteen hours, at least *nine* must be in the major department, unless the department does not offer sufficient hours in addition to the introductory course, in which case the concentration group may include four departments instead of three.

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#### ELECTION OF STUDIES.

Freshmen must confine their elections to the courses specifically required for their respective degrees and to the courses necessary to meet the requirement for generalization. Sophomores must similarly restrict their elections until they have made provision for completing both these sets of requirements, except that they may receive permission from the Dean to defer not to exceed three hours of the generalization requirement to the Junior year in order to continue a language studied in the Freshman year, or to take I English Literature, or I Spanish, or to take courses in chemistry necessary to complete in two years the requirements for admission to a medical college; and except in case they have arranged to begin work on the concentration requirement; but in no case may more than six hours of generalization work be deferred to the Junior year.

## QUOTA OF STUDIES.

The quota of studies is from fifteen to eighteen hours a week, in addition to the required work in physical education. A Senior may be allowed a minimum quota of twelve hours a week, if he does not need more to graduate; if he takes more than the requirement voluntarily, he is held to pass in all subjects which he continues after April first.

Freshmen are strongly advised not to take more than fifteen hours, unless they are taking A or B Greek.

## STATEMENT OF HOURS REQUIRED.

FOR GRADUATION.	Class of 1921,	-	-	-	-	-	60
	Class of 1922,	-	-	-	-	-	61
	Classes after 1922,	-	-	-	-	-	63
FOR GENERALIZATION.	Classes after 1922,	-	-	-	-	-	30
	(including I English Language.)						
FOR CONCENTRATION.	All classes,	-	-	-	-	-	18

[Minimum of free electives, 12.]

## LECTURES, 1919-1920.

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THE GEORGE SLOCUM BENNETT LECTURESHIP FUND.

A gift of twenty-five thousand dollars from Mrs. Ellen N. Bennett, Mrs. Martha Bennett Jones, R. Nelson Bennett, and Z. Platt Bennett, of Wilkes-Barre, Pa., has been combined with a gift of ten thousand dollars in 1907 from George Slocum Bennett, of the class of 1864, into a fund to be known as the George Slocum Bennett Lectureship Fund, in memory of Mr. Bennett, who died January 2, 1910. The income is to be used "in defraying the expenses of providing for visiting lecturers, preachers, and other speakers supplemental to the college Faculty."

In 1919-20 Professor George McKinnon Wrong, M. A., of the University of Toronto, gave a course of six lectures in April on: Canada and the United States, a Study of their Relations.

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UNIVERSITY ADDRESSES.

The following speakers addressed the College Body during the year 1919-20:

Charles Reynolds Brown, LL. D., Dean of Yale School of Religion: The College Man in a Day of Social Rebuilding. (Matriculation Day Address.)

John Galvin Ferguson, Ph. D.: China as a Republic.

Reverend Henry Hitt Crane, '13: Claims of Christianity on the College Man.

Henry Ingraham Harriman, '95, President of Boston Chamber of Commerce: The Relation of College Men to the Present Social Unrest. (Washington's Birthday Address.)

Alexander Frederick Whyte, M. P.: Conflicting Forces at the Paris Peace Conference.

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MIDDLETOWN SCIENTIFIC ASSOCIATION.

The Middletown Scientific Association, founded in 1871, has a membership of about one hundred, taken partly from the

college and partly from the town. Regular meetings are held on the second Tuesday of every month during the college year, in the lecture-room of the John Bell Scott Memorial. During 1919-20 the following addresses were given:

Professor Edward Lee Thorndike, Ph. D., Sc. D., Columbia University: Psychological Tests as College Entrance Examinations.

Professor Gary Nathan Calkins, Ph. D., Columbia University: The Mystery of a Bit of Protoplasm.

Professor Schneider: Human Adaptability to the Airplane.

Francis Gano Benedict, Ph. D., Director of the Nutrition Laboratory of the Carnegie Institution: Obesity, Diet, and Exercise.

Professor Richard Swann Lull, Ph. D., Sc. D., Yale University: The Pulse of Life.

Louis Agricola Bauer, Sc. D., department of terrestrial magnetism of the Carnegie Institution: The Solar Eclipse of May 29, 1919, and the Einstein Effect.

Professor Cady: Some War-time Scientific Devices and their Use in Time of Peace.

Associate Professor Hill: A World of Neglected Dimensions.

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#### THE CLASSICAL CLUB.

The Classical Club was founded in 1906 by about twenty of the students taking classical courses. Meetings are held once a month during the college year. The following addresses were given before the club in 1919-20:

Professor Charles Hall Grandgent, L. H. D., Harvard University: The Philological Transition from Latin to the Romance Languages. (Joint meeting with La Société Française.)

Professor Heidel: Greek and Roman Language Customs.

Professor Harrington: A Little Journey down from Rome (illustrated).

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#### LA SOCIÉTÉ FRANÇAISE.

A French club was founded in 1907 by a number of students taking courses in the department of Romance languages. In

the fall of 1909, the club was reorganized under the title of *La Société Française*, holding fortnightly meetings at the fraternity houses. The following address was given before the club in 1919-20:

Professor Charles Hall Grandgent, L. H. D., Harvard University: *The Philological Transition from Latin to the Romance Languages*. (Joint meeting with the Classical Club.)

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#### DER DEUTSCHE VEREIN.

A club was organized October 23, 1909, by undergraduates for further practice in the German language and the study of German culture. Those undergraduates are eligible for active membership (the number this year is limited to fifteen) who are taking or have taken courses in German more advanced than Course II. Members of the Faculty and graduate students may be elected to honorary membership. Meetings are held semi-monthly in rooms in East Hall. Programs, arranged with the advice of the teaching staff in the department, include addresses by instructors in German in other institutions, papers by members, plays, etc. The following addresses were given in 1919-20:

Associate Professor Clark: *Erfahrungen in Frankreich während des Krieges und mit dem amerikanischen Besetzungsheere nach dem Kriege*.

Georg Kartzke, Ph. D., Yale University: *Die deutsche Literatur des 19ten Jahrhunderts und ihre Stelle in der Weltliteratur*.

Professor Fife: *Die neue deutsche Reichsverfassung*.

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#### THE RADIO CLUB.

The Radio Club was founded in 1914 by instructors and advanced students in the department of physics. All students taking courses in physics who have completed Course VII are eligible for active membership. Meetings are held every two weeks in the Scott Laboratory for the discussion of matters of interest in wireless telegraphy and for practice in the use of apparatus.

### THE WESTGATE CLUB

The Westgate Club is named in honor of George Lewis Westgate, of the class of 1865, who, as Professor of History and Political Economy from 1880 to 1885, was the first head of the history department in Wesleyan University. The club was organized November 16, 1914, by ten students in the department of history. Those undergraduates are eligible for membership who are taking the seminary course, who are registered for a major in the department, or who are taking work in the department equivalent to a major. Several members of the Faculty have been elected to honorary membership. Meetings are held at convenient intervals, usually at the fraternity houses.

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### THE ATWATER CLUB.

The Atwater Club, named in honor of the late Professor W. O. Atwater, was organized in 1916 by the advanced students in the department of chemistry. Undergraduates who are majoring in chemistry, and who have attained an average of grade B in the department, are eligible to membership. Graduate students and members of the Faculty may be admitted to honorary membership by a three-fourths vote of the active members of the club. Meetings are held once a month, usually at the fraternity houses. The club has taken the lead in the organization of an alumni association of Wesleyan chemists. Besides papers by undergraduates, the following addresses were given in 1919-20:

Associate Professor Foye: Results of a Geo-physical Laboratory.

Professor Schneider: Water Analysis.

Emil Smith Liston: Copper Mining and Mine Rescue Work in Michigan.

Milton Webster Davenport, '03, of New Britain: Commercial Laboratories.

George Byron Hogaboom, of Waterbury: Electroplating.

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### THE LIBERAL ARTS CLUB.

The Delta Alpha Liberal Arts Club was organized in November, 1916, with a membership limited to twelve. The purpose

of the club is to afford an opportunity for acquiring a better knowledge and appreciation of art and music, comparing their tendencies with the contemporary developments in poetry and drama, to make such permanent collections of art prints and sheet music as may be possible, and to cultivate general interest in the fine arts. The following addresses were given before the club in 1919-20:

Professor Farley: The Works of Carl Sandburg.

Associate Professor Conley: The English Novel.

Professor Mead: The Development of Architecture.

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#### THE SHORT STORY CLUB.

The Short Story Club was organized in 1914 by about ten men, chiefly of the Sophomore class, who were interested in writing. The membership is at present limited to fifteen, elected from the three upper classes. Occasionally outsiders are invited to address the club, but the programs consist usually of plays, poems, stories, and discussions of live literary topics, contributed by the members. The meetings occur bi-weekly. The following addresses were given before the club in 1919-20:

Irving Bacheller, L. H. D.: Informal Address.

Professor Hewitt: The Humor of Aristophanes.

Professor Kuhns: The History of the Novel.

Professor Dodge: The Psychology of the Creative Imagination.

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#### THE OXFORD CLUB

The Oxford Club was organized in 1919 by a group of undergraduates who were preparing for religious work and who felt the need of a common bond. The purpose of the club is to maintain the interest of college men who are preparing for the ministry and to study problems relevant to Christian work. Any student who is definitely planning for work in the ministry, the Y. M. C. A., or some similar field is eligible for membership. The club meets at the various fraternity houses on the first Tuesday of each month. During 1919-20 the following addresses were given:

Reverend William DeVerne Beach, D. D.: Problems of the Ministerial College Student.

Professor Hewitt: A Layman's View of the Church.

John Douglas Adam, D. D.: The Preacher as a Prophet and a Leader of Men.

Roy Bullard Chamberlin, '09: Curriculum Preparation for the Ministry.

Reverend Douglas Horton, Middletown: The Man of God.

Hermann Arthur Lum: Problems Faced at the Hartford Conference.

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#### THE PRE-MEDICAL CLUB

The Pre-Medical Club was organized in 1919. Membership is open to any student intending to study medicine. Meetings are held monthly, at the various fraternity houses. The following addresses were delivered before the club in 1919-20:

Sheldon Samuel Stratton Campbell, M. D., Middletown: The Relation of General Medicine to the Specialties.

John Elijah Loveland, '99, M. D., Middletown: Relation of Medicine to Surgery.

Professor Schneider: Effect of Altitude upon the Human System.

Professor Dodge: Use of the Cardiograph.

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#### TEACHERS' CONFERENCES.

The programs of the three Teachers' Conferences held in 1917, 1918, and 1919, included several excellent addresses which have been published in pamphlet form for distribution to those interested. The program in 1920 was as follows:

Vice-President Dutcher: Address of Welcome.

Dean Frederick Scheetz Jones, LL. D., Yale College: Training for Citizenship in the Schools.

Henry Turner Burr, formerly of the State Normal School, Willimantic: The School, the Chief Agency for Americanization.

Albert Barrett Meredith, L. H. D., Deputy Commissioner of Education, State of New Jersey: The Responsibility of the State in the Problems of Americanization.



## GENERAL REGULATIONS.†

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### REGISTRATION.

Every student of the Junior, Sophomore, and Freshman classes is required to present to the Dean, not later than the last day of the final examinations, a list of the studies which he proposes to take the next college year. A fee of two dollars shall be paid by each student who fails to present such a list on or before that date. At the same time, members of the Junior class are required to present the list of courses approved by the respective instructors for concentration groups. The incoming class must present a list of studies not later than August 1, if admitted to college prior to that date; if not, within a reasonable time after admission.

Every student is required to register at the beginning of the first semester of each year. A fee of two dollars shall be paid by each student who does not register at the time appointed.

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### QUOTA OF STUDIES.

The requirement for graduation is sixty hours of work in addition to the required courses in physical education. Freshmen, Sophomores, and Juniors must take not less than fifteen nor more than eighteen hours of work per week, and Seniors not less than twelve nor more than eighteen hours per week. Freshmen are strongly advised to take not more than fifteen hours of work per week. No student will be allowed to take less than the minimum nor more than the maximum above specified, without special permission of the Administration Committee. A fee of ten dollars per hour for the year is charged for all courses taken in excess of eighteen hours per week.

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† Copies of the detailed Regulations may be obtained from the Dean.

## GRADES.

The general character of the work of each student in each study is indicated by his assignment to one of six grades, grade A denoting the highest excellence, and grades E and F, failure to pass.

A student will not be graduated unless he attain a grade of C— or higher in sixty per cent of the work required for graduation. (Beginning with the class of 1923 a student must pass with grade C— or higher in thirty-eight of the sixty-three hours required for graduation.)

The Dean sends to each student and to his parent or guardian, at the close of each semester, a report of his grades in all studies, together with a statement of class rank, and of conditions or deficiencies.

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## EXAMINATIONS.

Regular examinations are held at the end of the year, and during a specified period at the mid-year. Students on probation, and those who fail of promotion to the next higher class, are required to attend all exercises assigned them. The allowance of absences for others is as follows: in courses of two or more hours a week, one each semester for Freshmen and Sophomores, two for Juniors and Seniors. The allowance for honor students (those who have made an average for the past year of B— or higher, and Freshmen who have made an average of B— or higher in the first semester) is, for Freshmen and Sophomores, two; Juniors and Seniors, three. (The requirement for honors in 1921-22 and thereafter will be an average of grade B.) In a one-hour course not more than one absence is allowed in any semester. A student who has taken the allowed number of absences in any course, exclusive of those excused by the President or by the Committee on Athletics, must thereafter present an excuse for every absence taken in that course, and in case he have one unexcused absence or deficiency in addition to the number allowed, he is excluded from examination and must take a special examination later, paying a fee of five dollars. Unexcused absences from the first

or the last exercise of a term in any study, or from classes immediately before or after the Thanksgiving holiday, will result in exclusion from examination in the subjects in question.

Special written examinations are held during the week commencing with the Tuesday before the beginning of the first semester for all who have been excluded or excused from any of the examinations of the previous year.

For the benefit of students who have not been examined in second semester subjects, special written examinations are held during the first few days after the Christmas recess, at times announced by the Dean. For these examinations application must be made before the close of the first term. A fee of five dollars is charged for each examination.

For the benefit of Seniors who have been excluded or excused from any of the examinations during the preceding part of the year, and for members of the lower classes who have been excused from such examinations, special written examinations are held during the first few days after the spring recess, provided that application for such examination is made by the candidate before the close of the second term.

A student who fails to pass a final examination in any study before that study is taken up by the next succeeding class is required, unless specially excused therefrom, to recite with that class, or, in the case of an elective study, to substitute some other elective therefor.

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## PROMOTION.

In order to be promoted from the Freshman class to the Sophomore class, a student must be free of entrance conditions, and must have, at the close of the fall special examinations, a record of passing in ten hours of college work, and he must have attained a grade of C— or higher in not less than six hours' work. In order to be promoted from the Sophomore to the Junior class, a student must have a record of passing in twenty-five hours of college work, and he must have attained a grade of C— or higher in not less than fifteen

hours' work. In order to be promoted from the Junior to the Senior class, a student must have a record of passing in forty-two hours of college work, and he must have attained a grade of C— or higher in not less than twenty-four hours' work.

Beginning with the class of 1923, the hours of courses passed and of higher grades required for promotion are as follows: Freshman to Sophomore, 12 and 7; Sophomore to Junior, 29 and 17; Junior to Senior, 46 and 27. A student who has failed of promotion at the beginning of the year may recover rank with his class at the beginning of the second semester if he has met the requirements for promotion to his class together with half of the additional requirements for promotion to the next higher class.

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### ENTRANCE CONDITIONS.

Conditions for admission may be made up at the periods set for special examinations immediately after the Christmas and the Easter holidays (provided application for such examinations be made before the holidays to the Dean), or at the regular examinations set for admission at the beginning of the year following entrance to college. A fee of five dollars is charged for an examination in entrance conditions taken at any other time than those above specified. If any student shall fail to make up his conditions at or before the regular examination for admission at the beginning of the year following his admission to college, he will not be promoted to any higher class. No student is permitted to return to college for a third year who is conditioned in any of the required units for admission to college.

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### LEAVE OF ABSENCE.

A student who desires excuse from college exercises on account of absence from town must apply to the President for permission to be absent, and, unless the circumstances of the case render it impracticable, such permission must be obtained before the student's departure.

## PUBLIC WORSHIP.

Devotional services, which all students not excused for special reasons are required to attend, are held in Memorial Chapel every week-day at 7:50 A. M. and on Sunday at 11 A. M. The service on week-days is brief, consisting of Scripture lesson, hymn, and prayer. The Sunday service is of the same general nature as those in the churches, including a sermon or address.

A College Church was organized in 1916, under the name "The Church of Christ in Wesleyan University." Members of the student body or of the Faculty of Wesleyan University, and members of their families, may become members of this church by signing the following declaration: "Gratefully trusting in the love of God revealed by Jesus Christ, we aim to live as true children of the Heavenly Father. We unite in a Christian fellowship, mutually promising sympathy in Christian life and work."

Membership in this church is expected to continue only during the time of a person's connection with Wesleyan University. It does not involve the discontinuance of membership in any church with which a person may have been previously associated. It is, on the other hand, assumed that in most cases the members of the College Church will be at the same time members of other churches in Middletown or elsewhere.

The President of the University is pastor of the College Church; the clerk is Professor William North Rice. There is a Standing Committee which meets from time to time at the call of the pastor, for conference in regard to the work of the church. This committee consists of the pastor, one representative chosen by the Faculty members of the church, who acts as clerk of the church, and six representatives elected by the student members of the church. The standing committee the present year consists of President Shanklin, Professor Rice; C. P. Bateman, H. D. Berlew, J. K. Peck, and R. T. Steele of the Senior class; and C. E. Butler and R. L. Morgan of the Junior class.

Weekly contributions on the duplex-envelope plan are given for the expenses of the college Young Men's Christian

Association, and for the support of West China Union University, in Chengtu, China. The founder and president of that institution is Rev. Joseph Beech, D. D., '99, and several other Wesleyan graduates are members of its Faculty or of its Board of Governors. It is supported by the coöperation of most of the missionary organizations which are at work in West China.

The speakers at the services of 1919-20 were as follows:

David George Downey, D. D., Litt. D., '84, New York City.

Robert William Rogers, LL. D., '94, Madison, N. J.

Bishop Edwin Holt Hughes, LL. D., Malden, Mass.

Irving Bacheller, L. H. D., Riverside.

John Douglas Adam, D. D., Hartford.

Raymond Lalor Forman, D. D., '07, New York City.

Henry Hitt Crane, '13, Newton, Mass.

Lynn Harold Hough, D. D., President of Northwestern University.

Laurens John Birney, D. D., Dean of the School of Theology, Boston University.

Bishop Wilbur Patterson Thirkield, D. D., New Orleans, La.

Bishop Chauncey Bunce Brewster, D. D., Hartford.

Fred Winslow Adams, D. D., Springfield, Mass.

George Peck Eckman, D. D., ex-'84, Scranton, Pa.

Bishop Luther Barton Wilson, LL. D., New York City.

William Douglas Mackenzie, D. D., President of Hartford Theological Seminary.

Christian Fichthorn Reisner, D. D., New York City.

Charles Reynolds Brown, D. D., LL. D., Dean of Yale University School of Religion.

Bishop Edward Campion Acheson, Middletown.

Charles Stedman Macfarland, Ph. D., General Secretary of the Federal Council of the Churches of Christ in America.

Ethan Theodore Colton, Associate General Secretary of the International Committee, Y. M. C. A.

Julian Kennedy Smyth, President of the General Council, Church of New Jerusalem.

Sherwood Eddy, LL. D., Secretary for the Asia International Committee, Y. M. C. A.

Nehemiah Boynton, D. D., Brooklyn, N. Y.

Warren L. Rogers, D. D., Jersey City Heights, N. J.

John William Langdale, D. D., '03, Brooklyn, N. Y.

Robert Parmelee Wilder, M. A., General Secretary of the Student Volunteer Movement.

George Clarke Peck, D. D., Superintendent of the Maryland General Hospital.

David Brewer Eddy, M. A., Associate Secretary of the American Board of Commissioners for Foreign Missions.

Henry Burt Wright, Ph. D., Professor of Christian Methods, Yale University.

Walter John Sherman, B. S., S. T. B., Lynn, Mass.

Francis Edward Clark, D. D., LL. D., President of the World's Christian Endeavor Union.

Chester Columbus Marshall, D. D., New York City.

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## YOUNG MEN'S CHRISTIAN ASSOCIATION.

The purpose of the Wesleyan Young Men's Christian Association is to bring men into the Christian life and to develop them into strong and active Christians. Men are enlisted in Bible study; voluntary religious meetings are held weekly; boys' clubs, scout troops, and country Sunday schools are maintained under the leadership of college men; deputation teams visit the churches and preparatory schools to enlist young men for the Christian life; new students are aided in a great many ways; an employment bureau helps many needy students. These activities with others help to keep the men active in Christian work. The following is a list of the cabinet officers for 1920-21: President, H. D. Berlew, '21; Vice-President, H. E. Macdonald, '21; Secretary-Treasurer, C. E. Butler, '22; Bible Study, H. Heuer, Jr., '21; Missionary, R. C. Stimson, '21; Meetings, J. K. Peck, '21; Deputations, H. E. Macdonald, '21; Handbook, H. C. Trundle, '21; New Students, D. W. Adams, '22; Social, A. P. Robertson, '22; Publicity, R. L. Morgan, '22; Community Service, R. T. Steele, '21.

## STUDENT ORGANIZATIONS.

No student who has failed of promotion from the class below, no student who is on probation or under censure, no member of the Freshman class who has entrance conditions exceeding two units, no special student, no graduate student, and no Senior who is permitted to count the Senior year in fulfilment of the requirement of residence for the Master's degree, is allowed to take part, as a member of a University athletic team, in any athletic contest, or to appear in any public exhibition of any musical or dramatic organization, or to act as manager, assistant manager, or candidate for assistant manager of any athletic, musical, or dramatic organization; and any student whose college work is unsatisfactory at any time during the college year may be debarred from taking part in such a contest or exhibition. No member of the Freshman class is allowed to represent the University on athletic teams during the first half of the year.

No student is allowed to represent the college on more than two of the following organizations in any college year, either as member, manager, assistant manager, or candidate for assistant manager, nor on any two that are active at the same time of the year, without special permission from the Administration Committee: Football, Basket-ball, Baseball, Track Athletics, Tennis, Glee Club, Dramatics.

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## THE ATHLETIC COUNCIL.

In 1903 the Trustees authorized the organization of an Athletic Council, composed of three representatives each of the Faculty, the alumni, and the undergraduates. The Council has general supervision over the athletic affairs of the college, subject to certain veto powers retained by the Faculty. It administers eligibility rules, except as regards scholarship, approves schedules, ratifies the election of captains and managers, and controls the finances of the several departments of athletics, through a financial secretary. The officers of the Council for 1920-21 are: William A. Thompson, '97, President; Clyde W. Quick, '21, Vice-President; Professor Edgar Fauver, Secretary; Professor L. A. Howland, Financial Secretary.



## PUBLICATIONS ADVISORY BOARD.

The Wesleyan Undergraduate Publications Advisory Board was organized in 1916, to act in an advisory capacity for the undergraduate publications. It assumes no financial responsibility for any of the publications coming under its supervision. It determines the method of election of business managers and editors of the undergraduate publications and approves such elections, with power of veto. It has power to discharge any official who has proved himself incompetent after fair warning from the Board. It audits the accounts of the managers of the publications. The Board is composed of ten members, two representing the Faculty, two the alumni, and six the undergraduates. The officers of the Board for 1920-21 are as follows: President, Professor Curts; Secretary, F. A. Elsey, '21; Financial Secretary, Professor Hill. The members of the Board are: Professor Curts; Professor Conley; R. B. Chamberlin, '09, Secretary of the Alumni Council; F. T. Davis, '11; F. A. Elsey, '21, and C. W. Quick, '21, representing the *Argus*; T. F. Plimpton, '21, and P. W. Stansbury, '21, representing the *Olla Podrida*; J. K. Peck, '21, President, and C. S. Johnson, '21, Secretary-Treasurer of the College Body.

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## MEDICAL SUPERVISION.

As soon as possible after the opening of the college year all Freshmen and all upper-classmen entering Wesleyan for the first time are required to present themselves for physical examination. This examination is given by the college physician, who is a member of the Faculty. The examination consists of the recording of facts relating to the past health of the student which might bear upon his present condition, the taking and recording of a few statistics as to height, weight, lung capacity, etc., and a thorough medical examination of the eyes, nose, throat, lungs, and heart, and the surface of the body. In cases where it seems advisable, a laboratory examination is made of the blood and urine. The information gained from this examination is used as a basis for advice to the student as to his physical needs and the care of his body. In cases where it seems advisable, these examinations are repeated during the year.

The college physician has regular office hours for free consultation with students on matters of health. In case of sickness, treatment is given by the college physician, or the student is referred to the proper specialist. Part of the Foss House is used this year as an infirmary; there is also a well-equipped city hospital where students can be placed under the care of efficient physicians or surgeons. There is an income from a special hospital fund, from which the expenses for care at the hospital of needy students can be met in whole or in part.

All students who, through illness, are unable to attend classes are required to see the college physician (sick call is at 7:50 each morning, Sunday at 9:00 o'clock), or to send for him, and no excuse from classes on account of sickness is granted without a certificate from the college physician.

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## EXPENSES.

The annual charges in the Assistant Treasurer's bill are as follows:—

Tuition, - - - - -	\$140 00
Incidentals, use of library and reading-rooms, etc.,	60 00
Total, - - - - -	\$200 00

For the laboratory courses in physics, chemistry, and biology, fees are charged which vary with the nature of the course and with the number of exercises elected per week. The fee in V, VI, VIII, XI, and XII Biology is five dollars; in I and II Biology, six dollars; in X A and X B Chemistry, seven dollars and a half; in X Biology, and in I, II, and VII Chemistry, ten dollars; in IV Chemistry, twelve dollars; in III, V, and VIII Chemistry, fifteen dollars. The fee for each exercise per week in XII and XIII Chemistry is two dollars and a half; in practical physics, five dollars. The fees of graduate students in laboratory courses are determined by the instructor in each case. Students electing X Biology and the chemistry courses named are required in addition to make a deposit, which is refunded at the close of the course after charges for breakage have been deducted.

A fee of ten dollars per hour for the year is charged for all courses taken in excess of eighteen hours per week.

A diploma fee of ten dollars is charged to each student at graduation.

A fee of five dollars is required of every candidate for the Master's degree before his course of study can be approved by the Committee on Graduate Instruction.

A diploma fee of ten dollars is charged to each graduate student upon promotion to the Master's degree.

The college bills are payable in advance for each semester on or before October twentieth and February fifteenth, payment of the charge for tuition and incidentals, seventy dollars, on the bills due October twentieth, being required of all students before they are allowed to register. Unless the bill for any semester is paid, or payment thereof guaranteed, on the day appointed, the student is liable to exclusion from recitations.

Students who leave college on account of illness will be granted a pro rata rebate on the charge for tuition and incidentals and on laboratory fees. Those who leave for any other reason will be charged for tuition, incidentals, and laboratory fees to the end of the half of the semester in which they leave. No rebate will be granted on room rent for the semester unless the room is rented to another occupant.

No student can have an honorable dismissal, or certificate of progress in his studies, until his bills are paid.

A student who is absent from college on account of sickness, or for other cause, and who retains his place in his class, must pay the full college bills during his absence.

In order to reduce the expense of a college course, the college maintains a dining hall, where board may be obtained at a moderate rate. There is accommodation for about one hundred boarders. The college is responsible for the general management, the details being in charge of a matron who is responsible to a college officer. Bills are paid into the college treasury, and the college assumes all financial responsibility. The present charge is six dollars a week.

The college fraternities maintain clubs which supply board to their members at various prices.

Other expenses incident to college life vary with the habits and circumstances of the student. They are not, of necessity,

so great as to be burdensome to persons in moderate circumstances. Instances have been extremely rare in which students of good ability and health have been compelled to leave college for want of money. A special folder on expenses and methods of self-support will be sent on request to prospective students or their parents.

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## DORMITORY ACCOMMODATIONS.

North College, at the end of College Row, contains one hundred and one rooms that are available for students. The rooms are lighted by electricity, heated by steam, and provided with single beds, mattresses, chiffoniers, and desks. The prices indicated below include the care of the room. An extra charge is made for heat, and also for electric light, the latter depending upon the electric current furnished. A diagram showing the location of rooms, with dimensions, also a price-list giving number of occupants allowed in each room, will be sent upon application to the Dean.

A new dormitory, providing thirty-four two-room suites, and eighteen three-room suites, has been built at the corner of Cross Street and Mount Vernon Street, on the southwest corner of the campus. The details given above concerning North College apply also to this building.

Furnished rooms are rented also in Observatory Hall at a lower rate than is the case in North College and the New Dormitory.

When a room is assigned, a deposit of ten dollars (\$10) must be made by each applicant, or twenty dollars (\$20) in case a single applicant reserves a two-room or a three-room suite. Each student must sign a contract binding him to pay the rent of the room and to occupy the room in person through the entire college year. The deposit will be forfeited in case the student fails to return to college or in case he does not enter; otherwise the deposit will be credited on his bill for room-rent. A further deposit of three dollars (\$3) is required for each key furnished to occupants.

Students are permitted to take lodgings in town, but the places in which they room or board are in all cases subject

to the approval of the Faculty, and to inspection by the college physician. If any of the rooms in the college are thus left vacant, the rent of such rooms may be charged to holders of free scholarships who room in town.

Application for rooms should be made to the Dean.

## PRICES OF COLLEGE ROOMS.

All rooms furnished with bed, mattress, desk, and chiffonier. Care of rooms included.

### NORTH COLLEGE.

*(Plan will be furnished on request.)*

*For one occupant.*—Nos. 4, 8, 15, 16, 23, 24, 41, 42, 50, 51, 64, 65, 73, 74, 91, 92, 95, 98, 99: rent \$70, heat \$20. Nos. 7, 30, 35, 46, 56, 69, 80, 85: rent \$80, heat \$25. Nos. 3, 9, 29, 36, 59, 79, 86: rent \$85, heat \$25.

*For two occupants.*—Nos. 5-6, 31-32, 33-34, 57-58, 81-82, 83-84, 93-94, 96-97: rent \$140, heat \$30. Nos. 1-2, 13-14, 25-26, 27-28, 37-38, 39-40, 52-53, 54-55, 60-61, 62-63, 75-76, 77-78, 87-88, 89-90, 100-101: rent \$145, heat \$30. Nos. 10-11-12, 17-18-19, 20-21-22, 43-44-45, 47-48-49, 66-67-68, 70-71-72: rent \$165, heat \$36.

### NEW DORMITORY.

*(Plan will be furnished on request.)*

*For two occupants.*—Nos. A, B, 3, 4, 7, 8, 11, 12, 15, 16, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 41, 42, 45, 46, 49, 50, 53, 54: rent \$175, heat \$32.

Nos. C, D, 1, 2, 5, 6, 9, 10, 13, 14, 43, 44, 47, 48, 51, 52, 55, 56: rent \$200, heat \$42.

*For three occupants.*—Nos. C, D, 1, 2, 5, 6, 9, 10, 13, 14, 43, 44, 47, 48, 51, 52, 55, 56: rent \$255, heat \$42.

### OBSERVATORY HALL.

*(Plan will be furnished on request.)*

*For one occupant.*—No. 3: rent \$50, heat \$15. Nos. 1, 6, 7, 9, 10, 18: rent \$55, heat \$15. No. 11: rent \$65, heat \$20. No. 17: rent \$65, heat \$24.

*For two occupants.*—Nos. 15, 16: rent \$100, heat \$20. Nos. 12, 14: rent \$103, heat \$24. No. 13: rent \$107.50, heat \$27. Nos. 2, 19, 20: rent \$110, heat \$30.

## MATERIAL EQUIPMENT.

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### BUILDINGS ADDED SINCE 1900.

WILLBUR FISK HALL, opened in the summer of 1904, is occupied by the departments of language, literature, history, economics, and philosophy. It is of Portland brownstone and practically fireproof, 113 by 62 feet in dimensions, three stories in height above a lofty and well-lighted basement story, and cost one hundred and fourteen thousand dollars. It contains ten private studies for professors in charge of departments, fourteen lecture-rooms, seven commodious seminary rooms, and a well-appointed psychological laboratory.

In the planning and construction of the building careful attention was paid to matters of heating, lighting, ventilation, and drainage. It is believed that in dignity of external appearance, interior finish, convenience of arrangement, and adaptation at all points to the uses for which it is designed, it is a model college building.

THE JOHN BELL SCOTT MEMORIAL, a Physical Laboratory, was completed in 1904 at a cost of one hundred and eighteen thousand dollars. It is the gift of the late Charles Scott and of his son, Charles Scott, Jr., of the class of 1886, in memory of John Bell Scott, of the class of 1881, who died of disease contracted while serving as Chaplain of the U. S. Cruiser *St. Paul* during the Spanish-American war.

It is a beautiful and imposing building constructed of Harvard brick and Indiana limestone. Its main part has a frontage of 102 feet and a depth of 51 feet, and in the rear is an extension 50 by 30 feet. The building consists of basement, three stories, and attic, except that the third story is omitted in the extension. The main lecture-room contains nearly two

hundred seats, and there is a second lecture-room which is used for small classes, and also contains draughting tables for the use of the class in descriptive geometry. The building contains twenty-two rooms for experimental work, elementary and advanced, in addition to lecture and apparatus rooms, photographic dark-rooms, storerooms, offices, a library, and a room for draughting and computing. There is also a tower 4 by 6 feet in cross section, with a height of 54 feet in the clear, which can be used for experiments requiring great vertical extension. A wooden mast on the roof supports the wireless antennae, the rooms for radio experiments being in the basement

The building is equipped with a complete system of wiring for the purpose of distributing to all points electric currents from the city mains as well as from the storage battery and generators in the basement. For the most part the interior is finished with exposed brick walls, painted a light tint, and with exposed floor timbers and pipe work.

THE NEW NORTH COLLEGE was occupied as a dormitory in January, 1908. It is of Portland brownstone, practically fireproof, 152 by 48½ feet in dimensions, four stories in height above a basement, and cost about \$135,000. The building contains one hundred and one rooms, arranged to satisfy varying demands. There are lavatories in the basement and on the third floor, supplied with tub and shower baths. The floor construction is of reinforced concrete throughout, and the stairs of iron and slate. The building is heated by steam from the central heating plant, and all rooms are lighted by electricity. All partitions in the basement, corridors, and stair-wells are of hollow terracotta brick.

SOUTH COLLEGE, which formerly was used for recitation rooms and studies, has been remodeled to serve as an administration building. The entrance to the building has been raised and a new flight of steps constructed as an approach. The old wooden staircases have been replaced by new ones of iron, with slate treads. The first floor is used as a storeroom by the library. The second and third floors contain private offices for the President and the Dean, a stenographer's room,

a storeroom, and a spacious room, finished in quartered oak, used for Faculty meetings and as a general office. On the fourth floor are a number of two-room suites for office use. A chime of bells, manufactured by the firm of Mears and Stainbank, of London, England, and presented to the college by the class of 1863, has been placed in the tower of this building, which has been remodelled for the purpose.

**SWIMMING POOL.** Through the generosity of a friend of the college, an addition has been built on the east end of the gymnasium in which a swimming pool has been constructed, measuring sixty by thirty feet. The cost of the structure was approximately forty thousand dollars. The pool was opened for use in January, 1914. A more detailed description will be found on page 143.

**A NEW DORMITORY** was opened for use in September, 1916. It is located on the southwest corner of the rear campus. It is a four-story building, of Portland brownstone, about 173 feet long and 40 feet wide, except at the wings, which are nearly 57 feet in width. The cost of the building was approximately \$140,000. It contains thirty-four two-room suites and eighteen suites of three rooms. There are lavatories on each floor of each section.

**A REMODELED CHAPEL.** Through the generosity of Mr. Ralph H. Ensign, of Simsbury, Conn., and his son, Joseph R. Ensign, great improvements were made in the interior of Memorial Chapel in the spring and summer of 1916. By taking out the upper floor, the whole interior of the building has been converted into a spacious hall, with galleries. The seating capacity of the building has thus been increased from about five hundred to approximately seven hundred and fifty. John Gribbel, M. A., of Philadelphia, President of the Board of Trustees, has presented the college with a fine new organ, built by the Austin Organ Company, of Hartford. By the gifts of other friends, elaborate windows in commemoration of five former presidents of the college have been placed in the chapel.



## LIBRARY AND READING ROOMS.

THE LIBRARY in Rich Hall contains about one hundred and twenty-one thousand volumes. The library is open every week-day of the college year from 8 A. M. to 10 P. M. Students are allowed direct access to the shelves.

The increase of the Library is provided for from the income of the following funds, amounting to \$118,965:—

THE ALUMNI LIBRARY FUND, \$39,425, the aggregate of numerous gifts from alumni and friends of the University.

THE HUNT LIBRARY FUND, \$33,882, established by Rev. Albert Sanford Hunt (B. A., 1851, D. D., 1873), of Brooklyn, N. Y.

THE WILCOX LIBRARY FUND, \$22,588, established by Mrs. Harriet H. Wilcox, of Brooklyn, N. Y.

THE WISE LIBRARY FUND, \$5,378, for the purchase of scientific books, established by Rev. Daniel Wise, D. D., of Englewood, N. J.

THE MEAD LIBRARY FUND, \$5,375, established by Miss Elizabeth J. Mead, of Stamford, Conn.

THE GONA LIBRARY FUND, \$161, established by a friend of the department of chemistry for the purchase of books for that department.

THE JOHN BELL SCOTT LIBRARY FUND, \$2,070, established by Miss Helen Boyce Scott in memory of her father, who graduated in 1881. The income is to be used for the purchase of books for the departments of philosophy and of ethics and religion.

THE HOYT LIBRARY FUND, \$10,086, established by Miss Emily M. Hoyt, of Stamford, Conn.

In the basement of Fisk Hall is a reading-room, provided with daily and weekly newspapers. Another reading-room, on the second floor of Rich Hall, contains the current issues of the important magazines and reviews.

## THE VAN VLECK OBSERVATORY.

The Van Vleck Observatory was dedicated June 16, 1916. This building is the gift of the late Joseph Van Vleck, brother of the late Professor John Monroe Van Vleck, and is located on the crest of the hill about three hundred yards due west of the Chapel. It is constructed of Portland brownstone.

The main part of the building is 40 by 80 feet, one-story high, and contains a class-room, library, time-room, computing-room, director's office, and an assistant's room. In a wing extending to the west is a transit-room, with piers for two three-inch transits. At the end of a second wing, extending to the east, is the tower and dome for the chief instrument, a telescope of 18½ inches aperture, and 26 feet focal length. The completion of the lens for this instrument has been delayed by the war, and the 12-inch lens from the old observatory is used temporarily in the new mounting. The glass for the new lens has been received from Germany, and the process of grinding will probably be completed within a year.

For convenience in observing, the floor of the tower is an elevator, 33 feet in diameter, with a vertical range of 10 feet.

The basement contains two rooms for photographic work, a spectroscopic laboratory, and a workshop.

In addition to the telescope and two transits mentioned above, the observatory has a good equipment of apparatus for instruction and research. This includes three portable refractors, two spectroscopes, filar micrometer, photometer, altazimuth instrument, reflecting circle, two sextants, a 4-inch photographic doublet, two clocks, two chronometers, chronograph, comparator for photographic plates, and a computing machine.

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## LABORATORIES AND APPARATUS.

THE LABORATORY OF EXPERIMENTAL PSYCHOLOGY occupies four rooms in Fisk Hall: a general laboratory and lecture-room, a smaller research laboratory, a construction and apparatus room, and a physiological dark-room. These rooms were designed expressly for their present use and contain electrical

and other fittings of the most approved sort. The equipment of the laboratory is being increased to meet the demands of research as well as for more adequate class-room demonstration and elementary laboratory exercises. Among the more recent acquisitions may be mentioned: a set of preparations of the brain and spinal cord, a pendulum-tachistoscope, a projection apparatus designed for experimental purposes as well as for the projection of lantern slides, a mirror exposure apparatus of new design for studies in the psychology of reading, a microscope sphygmograph and registering device, and an Einthoven spring-galvanometer.

THE PHYSICAL LABORATORY occupies the John Bell Scott Memorial, for a description of which see page 136. It is equipped with apparatus for the performance of the experiments usually undertaken in undergraduate courses, and offers also opportunity, in certain lines, for advanced work on the part of graduate students. In electricity, particularly, facilities are afforded for instruction in the use of the most important electrical instruments and machines, and for extended tests and investigations, especially in the line of alternating currents, electric oscillations, and discharge through gases.

In addition to the electrical equipment of the Scott Laboratory the dynamo-room in the boiler house contains a 25-horse-power Ball engine, and a 17½-kilowatt General Electric direct-current generator, with accessory apparatus.

THE CRAWFORD MEMORIAL FUND. A fund of five thousand dollars has been given by Hanford Crawford, of St. Louis, in memory of the Reverend Morris D'Camp Crawford, who was a trustee of Wesleyan University from 1871 to 1896. The proceeds of this fund are devoted to the purchase of apparatus for the department of physics, or to the promotion of research in the same department.

THE CHEMICAL LABORATORY finds accommodation on the lower floors of Judd Hall. Two lecture and recitation rooms provide facilities for class instruction. The larger of the two is capable of seating one hundred and ten persons. The laboratory courses are likewise accommodated in two rooms,

one of which is reserved exclusively for the use of students in quantitative analysis. In the other, which is the general laboratory room, there are desks for more than fifty students. Owing to the present crowded condition of the laboratories, temporary provision has been made in the John Bell Scott Memorial and in the room adjoining the machine shop for laboratory work in physical chemistry and quantitative analysis.

The very valuable library of chemical periodicals collected by the late Professor Atwater is housed in the chemical laboratory and is accessible to instructors and students alike.

Announcement was made at the opening of college, September, 1916, of a gift by Mrs. Gardiner Hall, Jr., of South Willington, Conn., in memory of her husband, for the construction of a new chemical laboratory.

THE BIOLOGICAL LABORATORY occupies five rooms in Judd Hall and three rooms in the John Bell Scott Memorial. Four rooms in Judd Hall are used for general laboratory purposes and the rooms in Scott Memorial for physiology and bacteriology. The equipment provides an abundance of material for anatomical, histological, and embryological study, and apparatus necessary for elementary biological, physiological, and bacteriological work. The general laboratory room contains a type collection illustrating all orders of animals, and students are allowed to use the large museum collection for comparison and direct study.

THE AMOS JAY GIVENS BIOLOGICAL FUND. A fund of twenty-five thousand dollars has been given by Amos Jay Givens, M. D., LL. D., of Stamford, the income of which is to be used for the equipment and maintenance of the department of biology, or for the promotion of research in that department.

THE MACHINE SHOP occupies the west room in the boiler house, and is in charge of a skilled mechanic. It is equipped with first-class power lathes, planer, shaper, etc., and affords ample facilities for the construction of new apparatus, for purposes both of demonstration and of investigation; for the repair of apparatus already in use; and, to a limited extent,

for the instruction of advanced students who have exceptional mechanical aptitude.

**MATHEMATICAL MODELS.** This collection, the gift of Ebenezer Hill (B. A., 1870), of South Norwalk, comprises a complete set of the models made by Brill of Darmstadt, for illustration in the higher branches of mathematics, as well as in mathematical physics and crystallography. The models are arranged in a series of cases in the mathematical reading-room in Observatory Hall.

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## GYMNASIUM AND ATHLETIC FIELD.

THE FAYERWEATHER GYMNASIUM is located on the north side of the rear campus, parallel with Wyllys Street. Its dimensions are 55 by 205 feet.

The basement contains a large room for shower baths, a room adjacent for rubbing and drying, a large locker room, and toilet rooms. On the first floor is the main hall of the gymnasium, which is well equipped and affords ample room for every variety of gymnastic exercise. The director's office and a dressing room for members of the Faculty are also on the first floor. Attached to the director's office is a private room for the college physician, which is used for consultation and examination. Special attention has been paid to ventilation, drainage, and lighting, and the building is believed to contain the best features of a modern gymnasium.

An addition to the main building, completed in January, 1914, contains a swimming pool measuring sixty by thirty feet. The pool is lined with white ceramic tiles, with lanes in the bottom marked in blue, and is equipped with a life-rail and gutter, with markings showing depth and distances. The walls are of water-proof concrete painted brown, and the walk around the pool is of white tiles. The pool is nine and a half feet deep at the east end, and four feet deep at the west end. There is a gallery at the west end, entered from the main floor of the gymnasium. The pool is lighted by large windows at the east end, and by windows on the sides. Artificial lighting is furnished by a system of reflected light. Provision is made for a system of refiltering, and the pool is in every

way sanitary. Above the pool are two excellent hand-ball and squash courts. A 12-lap running track, with a 45-yard "straightaway," encircles the whole of the second floor.

The mess hall, built in 1918 for use by the Student Army Training Corps, has been added to the equipment for physical training, and is used for hand-ball and other indoor games.

Exercise on the athletic field and in the gymnasium is required of the Freshman and Sophomore classes three hours a week for the year; beginning with the class of 1923, a similar requirement will be made of the Junior class. Elective work in the gymnasium is offered to the Junior and Senior classes. A well developed system of intramural sports affords opportunities for all to engage in competitive games.

THE ANDRUS FIELD lies in the rear of the main line of college buildings, just south of the gymnasium. A quarter-mile cinder track, with a "straightaway" of 100 yards, encircles one portion of the field, within which ample room is afforded for baseball and field and track athletics. Football is played in another part of the field which has recently been improved for the purpose. The entire field, covering seven acres, provides sufficient space for class and university teams to practise at the same time. Its proximity to the college enables the whole student body to keep in touch with the training in all branches of athletics, and affords the teams an opportunity to use the dressing-rooms and baths reserved for them in the gymnasium.

All students have free use of the college tennis courts, of which there are thirteen.

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## MUSEUM.

THE MUSEUM OF NATURAL HISTORY AND ETHNOGRAPHY occupies the upper stories of the Orange Judd Hall of Natural Science. The collections are arranged with special reference to their educational use, and are freely accessible to students.

The nucleus of the departments of zoölogy and botany was formed by the Shurtleff collection, collected by Simeon Shurtleff, M. D., and purchased by the University in 1868.

The zoölogical department received in the years between 1872 and 1881 most important accessions in liberal donations and exchanges from the Smithsonian Institution, and in collections made by the curators on the coast of New England, through the facilities afforded by the United States Commissioner of Fish and Fisheries. Expeditions to Bermuda, Florida, and Newfoundland also added large and valuable collections. Valuable collections of insects were presented by Richard L. de Zeng in 1896, and by Mrs. E. K. Hubbard in 1898. In 1908 a fine collection of birds' nests, and a collection of reptiles and amphibians, from Portland and Cromwell, was received from Mr. Charles H. Neff. At the death of Mr. Neff in 1911, his entire collection came as a legacy to the museum. The collection is rich in skins, mounted specimens, and eggs of the birds of Portland and vicinity. The zoölogical department includes about thirteen thousand species. The vertebrata of North America, the marine invertebrata of New England, and the mollusca in general, are especially well represented.

The herbarium comprises about five thousand species, representing quite fully the flora of New England, and including also many specimens from foreign localities. The large collection of Joseph Barratt, M. D., came into the possession of the university in 1879. The herbarium of Rev. Merrill Hitchcock, B. A., including about 700 specimens, of which about 200 are from Connecticut, was presented to the museum in 1908.

The mineralogical department includes about three hundred and fifty species, and a much larger number of varieties. The Franckfort collection, purchased in 1858, contains many choice specimens, mostly from European localities. The minerals of the interesting region in which Middletown is situated are well represented by collections commenced by the labors of Professor Johnston (1835-1868), and largely increased in later years. Important accessions were obtained in 1899 by collecting trips to Nova Scotia and to Herkimer County, N. Y. The Sheldon collection, purchased in 1904, includes many beautiful and valuable specimens.

The geological department includes collections in lithology, physical geology, and paleontology. The lithological collection received in 1897 a valuable accession in the gift of a

set of the educational series of rock specimens described in Bulletin No. 150 of the U. S. Geological Survey, presented by the Survey. A suite of Ward's casts of fossils, presented by Orange Judd, M. A., in 1871, serves an excellent purpose in the work of instruction, affording the student a representation of many remarkable forms of ancient life, actual specimens of which are rare or unique. A valuable collection of Tertiary fossils was received in 1887 from the Smithsonian Institution, in exchange for duplicate shells from the Shurtleff collection. The collections in paleontology have been very largely increased since 1893 by the work of the late curator, S. Ward Loper, M. A., in the vicinity of Middletown, at Valcour Island, Lake Champlain, in western Maryland, in the vicinity of Chattanooga, Tenn., Cañon City and Florissant, Col., and Fossil, Wyo., and in Nova Scotia. Especially important among these accessions are the collections of fossil fishes and plants from the Triassic shales of the Connecticut valley, and of Tertiary fishes and plants from Fossil, Wyo., and Tertiary plants and insects from Florissant, Col. A choice collection of European fossils, including a number of beautiful specimens from the lithographic limestone of Solenhofen, was received in 1895 from the University Museum of Munich, in exchange for American fossils. The private collection of Mr. Loper, purchased for the museum in 1900, is very rich in fossil fishes and plants from the fossiliferous shales of the vicinity of Middletown.

The ethnographical department is especially rich in specimens illustrating the life of the aborigines of North America. Important contributions of pottery, casts of implements, models of dwellings, and other objects, have been received from the Smithsonian Institution. A very valuable collection of objects from burial mounds near Chattanooga, Tenn., was deposited in the museum in 1896 by Hon. A. R. Crittenden, and has since then been purchased. The private collection of Mr. Loper, purchased in 1903, contains many interesting Indian relics from the vicinity of Middletown. The collection of local Indian relics has been greatly increased by the legacy of Charles H. Neff in 1911. The department also possesses a valuable collection of pottery from the guano beds of Peru, presented by Joseph S. Spinney; a collection of Mexican antiquities, presented by Hon. Arnold Shanklin, former United



States Consul-General in Mexico; an interesting collection of weapons and other objects from the South Sea Islands; a collection of weapons and implements from equatorial West Africa, presented by Frederick B. Northam; a collection of relics from Assuan, Egypt, presented by Clarence S. Wadsworth, B. A.; and valuable collections of objects illustrative of Chinese life and customs, presented by Rev. Marcus L. Taft, D. D., Mrs. W. W. Wilcox, Rev. John Gowdy, D. D., and Rev. Joseph Beech, D. D. The collection of coins numbers about 4,500, exclusive of duplicates. Included in this number is a collection of about 1,800 Chinese coins, some of which are ancient and very rare, presented by Rev. Marcus L. Taft, D. D. Other valuable collections of Chinese coins have been received from Rev. John Gowdy, D. D., and Rev. Joseph Beech, D. D. A valuable collection of Greek and Roman coins and facsimiles of such coins, historical medals, and copies of such medals, was presented to the museum in 1906 by Stephen H. Olin, LL. D. Additional specimens subsequently presented by Dr. Olin make the number of specimens in this collection more than 600. The greater part of the ethnographical collection is at present arranged in the lower hall of the museum, with the collections in mineralogy and geology. The coins (with the exception of the Olin collection and certain other special collections placed on exhibition in the museum) are kept in a case in the classical seminary room in Fisk Hall, where they can be seen by students and others on special application.

The following is an approximate statement of the number of specimens in the various departments of the museum:—

## DEPARTMENT OF ZOOLOGY.

Mammals—skins mounted and unmounted, - - -	225
alcoholic, - - - - -	50
skulls and skeletons, - - - - -	110
Birds—skins mounted and unmounted, - - - - -	2,000
nests and eggs, - - - - -	1,600
Reptiles, - - - - -	600
Amphibians, - - - - -	200
Fishes, - - - - -	2,100
Insects—pinned and alcoholic, - - - - -	6,500
nests, borings, etc., - - - - -	50

Crustacea, -	-	-	-	-	-	-	-	-	1,500
Worms, -	-	-	-	-	-	-	-	-	1,800
Mollusks—shells, -	-	-	-	-	-	-	-	-	90,000
alcoholic, -	-	-	-	-	-	-	-	-	4,000
Echinoderms, -	-	-	-	-	-	-	-	-	1,000
Coelentera, -	-	-	-	-	-	-	-	-	1,700
Sponges and protozoa, -	-	-	-	-	-	-	-	-	150

## DEPARTMENT OF BOTANY.

Plants in herbarium, -	-	-	-	-	-	-	-	11,400
Specimens of wood, -	-	-	-	-	-	-	-	400
Miscellaneous botanical specimens, -	-	-	-	-	-	-	-	1,100

## DEPARTMENTS OF MINERALOGY AND GEOLOGY.

Minerals and rocks, -	-	-	-	-	-	-	-	22,100
Fossils—Paleozoic, -	-	-	-	-	-	-	-	11,500
Mesozoic, -	-	-	-	-	-	-	-	3,700
Cenozoic, -	-	-	-	-	-	-	-	3,000

## DEPARTMENT OF ETHNOGRAPHY.

Miscellaneous ethnographic specimens, -	-	-	-	-	-	-	-	4,400
Coins, -	-	-	-	-	-	-	-	7,000

The museum is open to the public on Wednesday and Saturday afternoons.

## FELLOWSHIPS AND SCHOLARSHIPS.

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### THE SQUIRE FELLOWSHIP.

This fellowship was founded in 1873, as the Squire Scholarship, by Hon. Watson Carvosso Squire (B. A., 1859, LL. D., 1911), of Seattle, Wash. In 1914 the principal of the fund was increased and the fellowship was established. It is open to Bachelors of Arts of Wesleyan University or of other colleges. The tenure of the fellowship is one academic year, with the possibility of reappointment for a second year. The income is not less than \$400 nor more than \$450. The Fellow shall devote himself to advanced study under the direction of the instructors in the department of Greek.

### THE RICH FELLOWSHIP.

This fellowship was founded by Mr. William Thayer Rich, of Boston, Mass., a trustee of the University. The income is \$450. It is awarded for graduate study in the department of economics and social science.

### TUITION SCHOLARSHIPS.

Each year the Trustees place at the disposal of the President, for the benefit of needy and worthy students, a sum of money which is used to pay, in whole or in part, the charge for tuition.

Tuition scholarships are intended to assist successful students who need financial aid to carry forward their college studies, and to assist well-prepared applicants for admission who give promise of creditable work, subject to suitable limitations.

A limited number of applicants may be assured, before entering college, of scholarship awards for the first semester. Such provisional scholarships shall be a maximum of \$70 for the semester. Application for these scholarships must be made on blanks supplied for the purpose, and must set forth satisfactory evidence of the student's financial needs which

must be vouched for by his parent or guardian, and must include references to at least two other competent persons, preferably his preparatory school principal and his minister. Applications will receive favorable consideration only upon receipt of satisfactory letters from the persons named as references, with regard to the character, scholarship, and financial needs of the applicant.

Applications from prospective students for scholarship aid should be filed at as early a date as possible. Favorable action cannot be assured unless the application is received prior to September 1.

Scholarships awarded for the first semester of the Freshman year will be continued for the second semester if the student has maintained a satisfactory standing in the work of the first semester.

Those desiring scholarship aid for the Sophomore, Junior, or Senior year must file, not later than June 30, similar applications containing complete and reasonably detailed statements of income and expenses for the preceding year. Scholarships for members of the three upper classes will be awarded in three groups according to the scholarship standing of the student in the portion of the college course already completed, if his needs warrant so much aid; to the first class, those with excellent grades, a full tuition scholarship of \$140 a year; to the second class, those with good grades, \$120; to the third class, those with average grades, \$100. Notice of the awards will be mailed to the applicants not later than August 1.

The amount of scholarships awarded will be credited on the semester bills. Scholarships regularly lapse at the close of each year. Scholarships will not be awarded to students failing of promotion, on probation, under censure, or not candidates for a degree.

Any one of the following reasons may cause the rejection of an application or the forfeiture of a scholarship already awarded:

- (a) evidence satisfactory to the committee that the scholarship is not needed;
- (b) expensive habits—failure to exercise proper economy in respect to room, board, or general living expenses will be regarded unfavorably by the committee;

(c) serious neglect of studies;

(d) breach of college discipline, indulgence in intoxicating liquors, or other gross misconduct.

If the cause of forfeiture has been removed, a scholarship may be restored after the lapse of a semester.

The committee on scholarships and loans has power, in exceptional cases, to waive the above regulations and to remit in full or in part the tuition or other charges.

All correspondence relating to scholarships must be addressed to the President of the University.

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Perpetual scholarships established by Jacob Atkins, John M. Howe, Ralph Mead, Charles C. North, Aaron Sandford, Jr., James Strong, Charles Woodbury, and the 27th Street Methodist Episcopal Church of New York City have been transferred to the University. These scholarships, which are at the disposal of the President, exempt the holders from the charge for tuition subject to the regulations set forth above.

In addition to these free tuition scholarships are the following:—

#### THE LOVELAND SCHOLARSHIP.

This scholarship was founded in 1874 by Miss Louisa Loveland. The income of \$2,879 is available, at the discretion of the Faculty, for the use of a deserving student who needs pecuniary assistance. For this scholarship only such students as intend to devote themselves to the work of the Christian ministry in the Methodist Episcopal Church can be candidates.

#### THE JOHN EVANS SCHOLARSHIP.

This scholarship was founded in 1883 by Mrs. Ann Evans in memory of her husband. The income of \$2,402 is given annually to that member of the Senior or Junior class who is named by the Board of Trustees, or by some authority to whom they may delegate the nomination. For this scholarship only such students as are preparing themselves for the ministry, and are already licentiates in the Methodist Episcopal Church, can be candidates.

**THE KATHRIN MILLER CADY SCHOLARSHIP.**

This scholarship was founded in 1916 by Mrs. Caroline L. Miller of Middletown in memory of her daughter. The income of \$2,726 is given annually to a graduate or undergraduate student for advanced study in the department of physics.

**THE WILLIAM DAY LEONARD SCHOLARSHIP.**

This scholarship was founded in 1917 by friends of the late William Day Leonard, B. A., 1878. The income of \$2,712 is awarded annually by the Faculty to one of three undergraduates nominated by the College Senate. The undergraduates are from the Junior, Sophomore, or Freshman classes. Mr. Leonard's characterization of a man is as follows:

"Accomplished, without ostentation; grave, without austerity; gentle, without weakness; cheerful, without frivolity; conciliatory, but unbending; rigid in performance, yet indulgent toward all faults but his own."

Upon the basis of such characterization, the scholarship is awarded to the student who gives greatest promise of success through character, scholarship, physical endowments, personal popularity, and qualities of leadership.

The holder of the scholarship in 1920-21 is James Knickerbocker Peck, Class of 1921, of Scranton, Pa.

**SCHOLARSHIP FUNDS.**

The income of the following scholarship funds is available, at the discretion of the President, to pay, in whole or in part, the tuition of deserving students who need pecuniary aid:

**The Frank S. Jones Scholarship Fund, \$1,166,** founded in 1892 by Frank S. Jones, of Brooklyn, N. Y.

**The Billings Scholarship Fund, \$3,984,** founded in 1902 by William Perry Billings, of Kingston, Pa.

**The Starks Scholarship Fund, \$1,172,** founded in 1902 by Mrs. Elizabeth B. Starks, of Troy, N. Y.

**The Shonk Scholarship Fund, \$27,245,** founded in 1903 by John J. Shonk and Mrs. George W. Shonk, of Plymouth, Pa., in memory of Hon. George W. Shonk (B. A., 1873).

- The Philip Reynolds Scholarship Fund, \$1,171,** founded in 1903 by Philip Reynolds, of Brockton, Mass.
- The Shepherd Scholarship Fund, \$3,344,** founded in 1904 by James G. Shepherd, of Scranton, Pa.
- The Connell Scholarship Fund, \$3,455,** founded in 1905 by Hon. William Connell, of Scranton, Pa.
- The Swift Scholarship Fund, \$30,233,** founded in 1905 by Mrs. Annie M. Swift, of Chicago, Ill., in memory of her husband, Gustavus F. Swift.
- The George G. Reynolds Scholarship Fund, \$2,814,** founded in 1906 by Hon. George G. Reynolds (B. A., 1841), of Brooklyn, N. Y.
- The Cyrus D. Jones Scholarship Fund, \$5,536,** founded in 1906 by Cyrus D. Jones, of Scranton, Pa.
- The Harriet Townsend Reynolds Scholarship Fund, \$2,812,** founded in 1907 by Hon. George G. Reynolds (B. A., 1841), of Brooklyn, N. Y., in memory of his wife.
- The Frank Reynolds Scholarship Fund, \$2,812,** founded in 1907 by Hon. George G. Reynolds (B. A., 1841), of Brooklyn, N. Y., in memory of his son, who graduated in 1868.
- The Abigail Pennoyer Reynolds Scholarship Fund, \$2,779,** founded in 1908 by Hon. George G. Reynolds (B. A., 1841), of Brooklyn, N. Y., in memory of his mother.
- The Samuel D. Hubbard Scholarship Fund, \$11,103,** founded in 1910 by Miss Jennie M. Clarke, of Middletown, in memory of her uncle, Hon. Samuel Dickinson Hubbard, for many years a trustee of Wesleyan University.
- The Montgomery Scholarship Fund, \$1,100,** founded in 1910 by the Rev. John E. Adams, D. D., of Patchogue, N. Y., trustee of the Jane P. Fitch Benevolent Fund, in memory of Rev. James Montgomery.
- The Mead Scholarship Fund, \$2,475,** founded in 1911 by Miss Elizabeth J. Mead, of Stamford, in memory of her father, Rev. Nathaniel Mead.

- The Lewis Gunn Scholarship Fund, \$2,709**, founded in 1911 by Mrs. Mary C. Holman, of Hopkinton, Mass., and Mrs. Lillie G. Smith, of Washington, Conn., in memory of their father, Rev. Lewis Gunn.
- The Jane D. Boardman Scholarship Fund, \$10,729**, founded in 1911 in memory of Mrs. Jane D. Boardman, of Middletown, by the executors of her estate, Hon. Frank B. Weeks, of Middletown, and Dr. Joseph H. Townsend, of New Haven.
- The Robert Alfred Davison Scholarship Fund, \$5,550**, founded in 1912 by George Willets Davison (B. A., 1892), of New York, N. Y., and his wife, Harriet Baldwin Davison, in memory of their son.
- The Walter Hubbard Scholarship Fund, \$42,833**, founded in 1912 by Walter Hubbard, of Meriden.
- The Butler Scholarship Fund, \$5,000**, founded in 1912 by Seth H. Butler and his sons, Abbott G., Earle C., and Dale D. Butler, all of Middletown.
- The Alexander Montague Atherton Scholarship Fund, \$5,325**, founded in 1913 by Mrs. J. B. Atherton, of Honolulu, Hawaii, in memory of her son, who graduated in 1897.
- The Burr Scholarship Fund, \$3,149**, founded in 1915 by W. O. Burr, of Hartford.
- The Clarence Everett Bacon Scholarship Fund, \$1,042**, founded in 1916 in memory of Clarence Everett Bacon (B. A., 1878) by his wife, Mrs. Katharine S. Bacon, of Middletown, and his children, Katharine Whiting Bacon, Roger Whiting Bacon (B.A., 1910), and Clarence Everett Bacon, Jr. (B. S., 1913).
- The George L. Clark Scholarship Fund, \$5,206**, founded in 1916 by Hon. John C. Clark (B. A., 1886), of New York, N. Y., in memory of his father.
- The Davis Scholarship Fund, \$1,966**, founded in 1916 by Miss Ella A. Davis, of Stamford.
- The Roswell S. Douglass Scholarship Fund, \$3,648**, founded in 1916 by Mrs. Roswell S. Douglass, of Brookline, Mass., in memory of her husband, who graduated in 1861.



- The Alexander McLean Scholarship Fund, \$2,611,** founded in 1916 by Miss Ellen McLean, of Tarrytown, N. Y., in memory of Rev. Alexander McLean.
- The John R. Todd Scholarship Fund, \$2,611,** founded in 1916 by Miss Ellen McLean, of Tarrytown, N. Y., in memory of John R. Todd.
- The Terrill Scholarship Fund, \$2,608,** founded in 1916 by Rev. David G. Downey (B. A., 1884), of New York, N. Y., and his wife, Lilian Terrill Downey, in memory of Moses W. and Almira O. Terrill.
- The Julius Hotchkiss Scholarship Fund, \$2,611,** founded in 1916 by Miss Fanny Hotchkiss, of Middletown, in memory of Julius Hotchkiss.
- The Enoch Perkins Scholarship Fund, \$2,611,** founded in 1916 by Miss Cornelia A. Hotchkiss, of Middletown, in memory of Enoch Perkins.
- The Charles G. R. Vinal Scholarship Fund, \$2,611,** founded in 1916 by Charles G. R. Vinal (B. A., 1861), of Middletown.
- The George W. K. Taylor Scholarship Fund, \$2,578,** founded in 1918 by Mrs. Anna M. Taylor, of Brooklyn, N. Y., in memory of her husband.
- The William North Rice Scholarship Fund, \$2,521,** founded in 1920 by the New York East Conference of the Methodist Episcopal Church.

#### LOAN FUNDS.

Besides the scholarships above mentioned, there is a small fund from which loans are made to deserving students in the Junior and Senior classes. These loans bear a moderate rate of interest and are payable usually after graduation.

The Alumni Council Loan Fund, amounting to a total of \$5,000, is available for needy students, in such amount as is not already loaned. The loans, which are limited to \$200 per man per year, bear a moderate rate of interest, beginning six months after graduation or date of leaving college.

## COLLEGE HONORS.

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### PRIZES.

**THE PEIRCE PRIZE.**—A prize of fifteen dollars, the income of a fund given by Rev. Bradford K. Peirce, D. D., is awarded for excellence in natural science. It will be given in 1921 in the department of biology to the student who passes the best special examination on the anatomy, embryology, and physiology of the heart, the examination being based on the treatment of the subject in Courses VII, XI, and XII. The subject of the examination in 1922 will be chemistry; in 1923, geology.

**THE PHI BETA KAPPA PRIZE.**—A prize of twenty-five dollars, the gift of the Connecticut Gamma of Phi Beta Kappa, is awarded for excellence in Latin. It will be given in 1921 upon a special examination in selected Satires and Epistles of Horace.

No person who has once taken the Phi Beta Kappa prize may compete for it again.

**THE JOHN BELL SCOTT PRIZE.**—A prize of sixty dollars, the income of a fund given by the late Charles Scott, is awarded for excellence in the modern languages. It will be given in 1921 for the best essay on a subject in German literature, to be announced later. In 1922 the prize will be given for work in the department of Romance languages.

**THE GIFFIN PRIZE.**—A prize of thirty dollars, the income of a fund given by Mrs. Giffin in memory of her husband, Rev. Charles Mortimer Giffin, D. D., is awarded for the best essay, by a member of the Senior class who is preparing to enter the Christian ministry or some other form of Christian work, upon some topic in the general field of the philosophy of religion. Originality of style and freshness of

thought are considered in making the award. The topic for 1921 is: The Relation of Morality and Religion, and the essay should be handed to the Professor of Ethics on or before the first Monday in May (May 2, 1921).

**THE CAMP PRIZE.**—A prize of thirty dollars, the income of a fund given in memory of Samuel T. Camp, is awarded for excellence in English literature. It will be given in 1921 upon a special examination in Course I in English literature.

**THE JOHNSTON PRIZE.**—A prize of twenty-five dollars, the gift of Rev. David G. Downey, D. D., in memory of Professor John Johnston, is awarded for excellence in electricity. It will be given in 1921 upon a special examination based on the first half of Course VII in physics.

**THE SPINNEY PRIZE.**—A prize of thirty dollars, the income of a fund given by Joseph S. Spinney, is awarded for excellence in Greek. It will be given in 1921 upon an examination based on Course II in Greek.

**THE RICE PRIZE.**—A prize of twenty dollars, given in memory of Rev. William Rice, D. D., is awarded for excellence in mathematics. It will be given in 1921 upon an examination based on Course VII in mathematics.

**THE WALKLEY PRIZE.**—A prize of fifty dollars, the income of a fund given by the late Webster R. Walkley, D. C. L.—*in memoriam* David Hart Walkley, born April 23, 1857; graduated June 27, 1878; died September 16, 1878—is awarded for excellence in psychology. It will be given in 1921 to that member of the Junior or Senior class who presents the best essay on: The Nature, Conditions, and Enemies of Morale.

**THE GERALD PRIZE IN ENGLISH.**—A prize of twenty-five dollars, the gift of Herbert Parvin Gerald, B. A., 1882, is awarded for excellence in some special phase of the work in one of the courses in English literature assigned to the Junior year. It will be given in 1921 after some special test, to be announced later, on the work of Course III in English literature.

**THE GERALD PRIZE IN ECONOMICS.**—A prize of twenty-five dollars, the gift of Herbert Parvin Gerald, B. A., 1882, is awarded for excellence in the elementary course in economics. It will be given in 1921 upon a special examination on Course I in economics, to be held June 4, 1921, together with an essay on Irving Fisher's "Plan for Stabilizing the Dollar," due on the same date.

Students who compete for either the Camp, the Johnston, the Spinney, the Rice, the Walkley, or the Gerald prizes must do so during the year in which they regularly pursue the course or courses on which the examination for the prize is based.

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**THE WISE PRIZE.**—A prize of twenty-five dollars, the income of a fund given by Rev. Daniel Wise, D. D., is awarded to that member of the Senior class who excels in ethics. It will be given in 1921 to that member of the Senior class who presents the best essay on the topic: The Social Teaching of the Hebrew Prophets and Jesus. Essays should be handed to the Professor of Ethics on or before the first Monday in May (May 2, 1921).

**THE PRENTICE PRIZE.**—A prize of twenty dollars, given by the late Mrs. Elizabeth Brooks Prentice in memory of Professor George Prentice, is awarded to that member of the Senior or Junior class who excels in German. It is given in alternate years, and will not be awarded in 1921.

**THE SHERMAN PRIZE.**—A prize of fifteen dollars, the income of a fund given by Rev. David Sherman, D. D., is awarded this year to that member of the Freshman class who excels in mathematics. The subject of the examination in 1922 will be Latin; in 1923, Greek.

**THE AYRES PRIZE.**—A prize of sixty-five dollars, the income of a fund given by Daniel Ayres, M. D., LL.D., is awarded to that member of the Freshman class who is found upon a special examination, held shortly after the beginning of the college year, to have attained the highest excellence in the studies of his preparatory course. The examination falls into eight

parts, covering the following subjects: Latin (4 units); Greek (3 units); French (3 units); German (3 units); English (3 units); history (3 units); mathematics ( $2\frac{1}{2}$  units), and science (3 units). Of these eight parts each candidate will be examined in four, three of which must be English, mathematics, and a foreign language (ancient or modern).

**THE RICH PRIZE.**—A prize of one hundred dollars, the income of a fund given by Isaac Rich, in memory of his wife, is awarded to that member of the Senior class whose oration at Commencement is deemed best in composition and delivery. These orations must not exceed fifteen hundred words in length, and must be left with the department of English Literature on or before the first Monday in May (May 2, 1921).

**THE OLIN PRIZE.**—A prize of forty dollars, the income of a fund given by Mrs. Julia M. Olin, is awarded to that member of the Senior class who excels in English composition. The subject for the essay of 1921 is: Three Centuries of Puritanism in New England, December, 1620–December, 1920. The subject for the essay of 1922 is: The Plays of John Galsworthy. Essays must be left with the department of English Literature on or before the first Monday in May (May 2, 1921).

**JUNIOR EXHIBITION PRIZE.**—A prize of twenty-five dollars is awarded to that member of the Junior class who presents the best oration at the annual Junior Exhibition. In the award of this prize both the composition and the delivery of the oration are considered. The orations must be left with the Professor of the English Language three weeks before the date of the Exhibition.

**THE COLE PRIZE.**—A prize of thirty-five dollars, the gift of George Henry Walker, B.S., in memory of Charles Edward Cole, is awarded to that member of the Freshman class who maintains the highest standing in English composition during the second and third terms of his Freshman year. Those who wish to compete must announce their intention at or before the beginning of the second term.

**THE BRIGGS PRIZE.**—A prize of ninety dollars, the income of a fund given by James E. Briggs, is awarded to the student who excels in debate. No person who has once taken the Briggs prize may compete for it again.

**THE PARKER PRIZE.**—A prize of twenty-five dollars, the income of a fund given by Rev. John Parker, is awarded to that member of the Junior or Sophomore class who excels in declamation.

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The several committees of award will withhold any prize, if, in their judgment, none of the exercises presented in competition for it possess the requisite merit.

## AWARD OF PRIZES, 1919-1920.

*The Peirce Prize*, to HAROLD THORNTON STEARNS, 1921.

*The Phi Beta Kappa Prize*, to BERNARD ALOYSIUS KOSICKI, 1921.

*The John Bell Scott Prize*, to LOUIS ONORATO LA BELLA, 1921.

*The Giffin Prize*, to FREDERICK FRANKLIN ADAMS, 1920.

*The Camp Prize*, to COLEY BANKS TAYLOR, 1922.

*The Johnston Prize*, to ROBERT WATKINS CLARKE, 1921.

*The Spinney Prize*, to EDWARD LAWRENCE CHRISTIE, 1921.

*The Rice Prize*, to HERBERT ELI ARNOLD, 1921.

*The Walkley Prize*, to BERNARD ALOYSIUS KOSICKI, 1921.

*The Gerald Prize (Economics)*, to LEON WHITEMORE ELLSWORTH, 1922.

*The Sherman Prize*, to ARTHUR EUGENE SUTHERLAND, JR., 1923.

*The Ayres Prize*, to ARTHUR EUGENE SUTHERLAND, JR., 1923.

*The Rich Prize*, to STANLEY EVERTON GRANNUM, 1920.

Committee of Award: Bishop Herbert Welch, LL. D., Philip Patterson Wells, Ph. D., and Edward Burt Sellew, B. A.

*The Olin Prize*, to FREDERICK FRANKLIN ADAMS, 1920.

*The Junior Exhibition Prize*, to STANLEY EVERTON GRANNUM, 1921.

Committee of Award: M. Eugene Culver, Esq., M. A., Reverend Lester Osborne Schriver, B. A., and Philip Patterson Wells, Ph. D.

*The Cole Prize*, to LAWRENCE ALLEN SCHMINKY, 1923, and ARTHUR EUGENE SUTHERLAND, JR., 1923.

*The Briggs Prize*, to JONATHAN POTTEIGER BATDORF, 1921.

Committee of Award: Reverend Percy Varney Norwood, M. A., Arthur Stanley Hancock, B. A., and Leonard Osborne Ryan, Ph. B.

*The Parker Prize*, to CARLTON FLETCHER HUBBARD, 1922.

Committee of Award: Reverend Burrill Neville Timbie, Heman Charles Whittlesey, B. A., and Clarence Floyd Haviland, M. D.

## APPOINTMENTS FOR JUNIOR EXHIBITION AND COMMENCEMENT.

The Junior Exhibition is held on the third Tuesday evening in March. Members of the class seeking appointment hand in an oration of not more than one thousand words on or before February 15th. Ten of the writers are selected to take part in a preliminary contest the first week in March, and from them are selected six to participate in the final contest on the third Tuesday in March.

The selection of speakers for Commencement is determined as follows. Members of the Senior class seeking appointment to speak at Commencement hand in an oration; from the eight competitors whose work is adjudged to be of the highest merit, four are selected by means of a contest in declamation.

The speakers last year were:

### JUNIOR EXHIBITION.

Stanley Everton Grannum,	Everett Lester Oldham,
Louis Onorato LaBella,	Harold Thornton Stearns,
Frank Leland Stowe.	

### COMMENCEMENT.

Dominic Cambria,	Stanley Everton Grannum,
Raymond Anthony Dousseau,	Nevin Gebhart McCloskey.

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## HONORS IN SCHOLARSHIP.

### I. HONORS IN GENERAL SCHOLARSHIP.

Two grades of honors, designated respectively as honors and high honors, are conferred at graduation, based upon the general scholarship of the student throughout his whole course.

A student completing the requirements for graduation with grades in all courses or half courses completed averaging B— (after this year, B) shall be graduated with honor; with grades averaging A— with high honor.



## II. DEPARTMENTAL HONORS.

## GENERAL STATEMENT.

Two grades of departmental honors, designated respectively as Junior honors and Senior honors, are offered in the several departments.

Departmental honors are awarded for voluntary and intensive study, reading, research, or laboratory work done by the student within the general field of the courses taken as a major study, including, at the discretion of a professor in the student's major department, other courses in the student's concentration group. While this work is usually supplementary and related to the regular courses, work of a wider and more independent scope and character may be accepted, provided it falls within the general field of the concentration group; but no such plan of work will be approved which would in any considerable degree duplicate a course which the student is counting for graduation.

The purposes of both grades of departmental honors are the development on the part of the student of initiative, power of independent investigation, and critical or constructive scholarship. They are intended to encourage the student to undertake work in connection with his courses beyond the customary requirements.

The candidate should realize that the responsibility for the prosecution of the undertaking rests with himself and not with his instructor. The work is to be carried on in consultation with a professor in the student's major department, but as far as practicable the choice of subjects and the conduct of the work is left to the candidate himself.

It is expected that candidates for departmental honors will not elect more than sixteen hours of courses in addition to the required work in physical education, and students planning to become candidates for Senior honors are advised to plan their previous elections so that they may take as nearly as possible the minimum quota of regular courses in the Senior year.

## JUNIOR HONORS.

Any Junior of normal standing or higher may become a candidate for Junior honors. Applications must be made not

later than three months prior to Commencement, and a preliminary report of the work must be presented to the professor and by him to the committee on departmental honors at least two months before Commencement.

*Examinations.*—The professor in charge tests the applicant's work as regards quantity and quality, by theses, reports, examinations, or such other methods as may be proper. The committee on departmental honors is empowered to make such additional tests as it may deem necessary before confirming the recommendation of the professor.

*Awards.*—Awards of Junior honors are made by the Faculty upon recommendation of the committee on departmental honors. No student is eligible who is not in normal standing in the Junior class, or who has failed to receive a grade of C— or higher in any course pursued at the same time as the departmental honor work. The candidate must have attained an average grade not lower than B— (after this year, B) in the courses in his concentration group so far as pursued, and in the departmental honor work.

#### SENIOR HONORS.

Any Senior who has received Junior honors or whose grades have averaged B— (after this year, B) or higher may become a candidate by applying not later than the tenth of October of his Senior year, at which time an outline of proposed study or investigation in connection with the courses which he is pursuing for his major study, or for his concentration group, shall be presented for approval to the professor in charge of the major study, and by him to the committee on departmental honors.

A preliminary report must be submitted to the professor in charge, and by him to the committee, at least fifteen days before the close of the first semester, and if the report is unsatisfactory the candidacy is cancelled.

Upon recommendation of the professor, and with the approval of the administration committee, a student satisfactorily pursuing work for Senior honors may during the second semester receive an increased allowance of absences from college exercises, except in the case of announced written recitations and examinations, subject to revocation in case of abuse of the privilege.

*Examination.*—Senior honors are awarded only after an examination in the general field of the major study as well as in the departmental honor work, before the committee on departmental honors and such others as they may wish to associate with themselves. At the discretion of the committee, a thesis, report, or other evidence of proficiency may also be required.

*Awards.*—Awards of Senior honors are made by the Faculty upon recommendation of the committee on departmental honors. No student is eligible who does not hold regular standing in the Senior class, or who has failed to receive a grade of C— or higher in any course pursued at the same time as the departmental honor work. The candidate must have attained an average grade not lower than B— (after this year, B) in all the courses in his concentration group, and in the departmental honor work.

High Senior honors may be awarded by the Faculty to candidates for Senior honors whose departmental honor work gives evidence of unusual capacity for independent investigation, and whose grades, in all courses in his concentration group, are A— or higher.

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*Honorable Mention.*—A student who did not receive Junior honors may comply with the requirements therefor in his Senior year, in which case he may be awarded honorable mention in the department.

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All work required for Junior and Senior honors must be completed before the beginning of the final examinations in June.

Awards of honors in general scholarship, of Junior and Senior departmental honors, and of honorable mention will be printed on the programme at Commencement, in the Catalogue, and in the Alumni Record, and will be suitably posted throughout the ensuing year.

## AWARD OF HONORS.

COMMENCEMENT, 1920.

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### HONORS IN GENERAL SCHOLARSHIP.

#### HIGH HONORS.

Frederick Morgan Davenport, Jr.,    Hugh Deal Hughes,  
Harold Howe Munroe,                    Albert Ernst Nuelsen.

#### HONORS.

George Floyd Bickford,	Garry deNeuville Hough, Jr.,
Earl Matthias Bilger,	Eugene Howard Jeffrey,
Edward Spellmeyer Boote,	George Raymond Larkin,
Arthur Prudden Coleman,	Byron Dwight MacDonald,
Raymond Anthony Dousseau,	Daniel Valentine Manahan,
George Barnes Galloway,	George Curtis Morgan,
Donald Covil Gordon,	Randall Robinson Porter,
Stanley Everton Grannum,	Edward Austin Warren, Jr.,
Watson Munroe Hannan,	Paul Redner Webb,
	Bernard Sidney Wrubel.

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### DEPARTMENTAL HONORS.

#### SENIOR HONORS.

Romance Languages: Arthur Prudden Coleman. Subject:  
"The Life and Works of Victor Hugo."

#### JUNIOR HONORS.

Mathematics: Leonidas Hamlin Bunyan. Subject: "The  
Calculus of Finite Differences."

Geology: Harold Thornton Stearns. Subject: "The Under-  
ground Water Resources of the Town of North Haven."

## DEGREES.

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The following degrees are conferred by the University in course: Bachelor of Arts (B. A.), Bachelor of Science (B. S.), Master of Arts (M. A.). The degree of Bachelor of Philosophy (Ph. B.) will be conferred, beginning with the class of 1923.

**THE BACHELOR'S DEGREE.**—The degrees of Bachelor of Arts, Bachelor of Science, and Bachelor of Philosophy are conferred on those who have met the requirements for admission to the respective courses as set forth on page 40, and have taken the required quota of studies in college, as prescribed on pages 113-116.

The baccalaureate degree is awarded *summa cum laude* to a student who takes both high general and high Senior departmental honors; *magna cum laude*, to a student who takes either high general or high departmental Senior honors; *cum laude*, to a student who takes either general or Senior departmental honors.

**THE MASTER'S DEGREE.**—The degree of Master of Arts is conferred in accordance with the following regulations:—

1. The degree of Master of Arts is conferred upon Bachelors of Wesleyan University, of at least one year's standing, at the satisfactory conclusion of a course of advanced, non-professional study, pursued in residence for a period of not less than one year.\* This course of study is under the

\* Candidates for the Bachelor's degree who satisfy the requirements for honors in general scholarship may in their Senior year be admitted to candidacy for the Master's degree, provided that the amount of their undergraduate work remaining to be completed at the close of the September special examinations does not exceed three hours. Except by express permission of the Committee on Graduate Instruction, their undergraduate work must satisfy the group requirement in such manner that they are free to elect the remaining three hours in the department or departments in which they intend to do graduate work. Such candidates shall not be members of any athletic or debating teams, musical or dramatic organizations, or take part in any similar undergraduate activity. This rule, however, does not necessarily debar them from competing for any prize for which they would be eligible as undergraduates. The entire work of these candidates is under the direction of the Committee on Graduate Instruction. The Master's degree will not be conferred upon them until the Commencement succeeding that at which the Bachelor's degree has been conferred.

full direction of the Committee of the Faculty on Graduate Instruction, composed of three permanent members with the addition of the instructor in charge of each department in which the candidate pursues work.

2. In the case of Bachelors of other colleges whose course of study is accepted by the Committee on Graduate Instruction, or who pass such additional examinations as the Committee may prescribe, the degree of Master of Arts is conferred on the conditions prescribed in the case of Bachelors of Wesleyan University.

3. Graduate students, excepting assistants and fellows, pay the regular tuition and laboratory fees. A fee of five dollars is required of every candidate for the Master's degree at his registration, and a fee of ten dollars is required before the degree is conferred. Both fees are payable to the Assistant Treasurer of the University.

4. Evidence of the candidate's proficiency in the approved course of study is given in one or more of the following ways, as the Committee may prescribe: (*a*) by examinations, oral or written; (*b*) by a thesis; (*c*) by the exhibition of scientific specimens, preparations, or processes. All such tests of proficiency are under the direction of the Committee, who will report to the Faculty proper candidates for the degree.

In addition to these regulations of the trustees, the Committee on Graduate Instruction has from time to time adopted standing rules of procedure, among which the following should be noted as specially important:—

A prospective candidate for the Master's degree must apply to the secretary of the Committee on Graduate Instruction. Such application must be made not later than October 15 of the academic year during which he proposes to conclude his studies for the degree. On receipt of such an application, the Committee will consult the instructors concerned, who will communicate with the candidate, if necessary, and will prepare a course of study and submit it to the Committee. The course of study prescribed for the candidate may be confined to a single department, or may include work in more than one department; but the Committee does not usually approve courses including work in more than two departments, nor in any case a course which is lacking in unity.

When the course of study submitted by the instructors has been approved by the Committee, and the receipt for the payment of the required fees has been presented to the secretary of the Committee, the candidate will be formally admitted. He will then receive an official copy of the course of study prescribed for him, including a statement of the number and character of the examinations required.

Whatever other tests of proficiency may be prescribed, each candidate for the Master's degree is required to pass an oral examination in the presence of the Committee, upon the whole, or a previously specified part, of his course of study.

All examinations of candidates for the Master's degree are conducted at the University.

Unless the Committee, for important reasons, determines otherwise in some specific case, no examinations will be given (except in regular college courses), and no thesis or other work prescribed in preparation for the degree will be received, after the beginning of the final examinations in the academic year in which the candidate desires to be recommended for the degree.

When the preparation of a thesis is prescribed, the candidate is required to present through the Secretary, at or before the time of his final examination, one or more copies thereof for preservation in the University Library, and in such other places as the Committee may determine. Such theses are to be neatly and accurately printed, or type-written, on paper of letter size, and substantially bound. A model of suitable execution may be seen at the University Library.

DEGREES CONFERRED.  
COMMENCEMENT, JUNE 21, 1920.

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## DEGREES IN COURSE

The Degree of Bachelor of Science was conferred on:

Leslie Adamson,	Harold George Harman,
Edwin Carl Anderson,	Donald Coople Lewis,
Andrew John Blackmore,	Morgan Noulton Lewis,
James Aylward Develin, Jr.,	Harold Edgar McGrath,
James Edward Dooley,	Clifford Clark Payson,
Watson Munroe Hannan,	Lawrence Edwin Williams.

As of the class of 1918.

George Floyd Bickford,	Carl Edwin Nyman,
James Edmiston Brown,	Eric Verner Sandin,
Arthur Henry Illing,	Page Sharp,
Stuart Benjamin Knapp,	Edwin Stanley Taylor,
John Lawrence Martin,	Paul Redner Webb.

As of the class of 1919.

Russell Hobson Anderson,	Garry deNeuville Hough, Jr.,
Leslie Palmer Beebe,	George Carter Kellom,
Arthur Sands Bibbins,	Sidney Joseph Keser,
Nelson Sylvester Bigelow,	Ellsworth Frank Lamson,
Earl Matthias Bilger,	George Curtis Morgan,
Edward Spellmeyer Boote,	Pierre Allaire Northrip, Jr.,
Emerson David Bresee,	Randall Robinson Porter,
Howard Arthur Clark,	Harold George Richardson,
Charles William Deininger,	Wilbur Gartman Saxon,
William Henry Ginn,	Lucian Henry Stevens,
Raymond Hamilton Goodale,	Stanley Linham Thornton,
Harold Gilbert Travis.	



## The Degree of Bachelor of Arts was conferred on:

George Raymond Larkin, Herbert LeVan Richards.  
As of the class of 1918.

Edgar Holmes Delamater, Daniel Valentine Manahan,  
James Newbury FitzGerald, Dudley Haley Manchester,  
Eugene Howard Jeffrey, Milton Harold Ryan,  
Byron Dwight MacDonald, Sidney Lewis Straley.  
As of the class of 1919.

George Asa Ackerly,	Stanley Everton Grannum,
Frederick Franklin Adams,	Earl Carlile Gravatt,
Raymond Walton Allen,	Howard Edward Green,
Milton Spry Andrews,	Roger Franklin Holmes,
Alan Frank Bain,	Hugh Deal Hughes,
Dominic Cambria,	Hugh Coban Jenkins,
Merrill James Campbell,	Edward Matthews Jones,
Carlton Joseph Chapin,	Nevin Gebhart McCloskey,
Harold Crawford Chapman,	Harold Howe Munroe,
Arthur Prudden Coleman,	Albert Ernst Nuelsen,
Frederick Morgan Davenport, Jr.,	Lucius James Parks,
Edward Everett Dixon, Jr.,	George Francis Peck,
Kenneth Victor Dixon,	Lewis Gregory Seeley,
Raymond Anthony Dousseau,	Harold Orlo Thompson,
George Barnes Galloway,	Leroy Lockwood Walter,
Ronald Scott Gibbons,	Edward Austin Warren, Jr.,
Lewis Loder Gilbert, Jr.,	Francis Raymond Wight,
Donald Covil Gordon,	Bernard Sidney Wrubel.

## The Degree of Master of Science on examination was conferred on:

John Elmer Cavelti, B. S., 1918. Subject: Chemistry. Thesis:  
"A Study of the Chemistry of Antimony and an Investigation of the Dissociation Pressures of its Oxide."

Carleton Southwick Spear, B. S., 1919. Subject: Chemistry.  
Thesis: "The Constitution of the Reduction Products of Benzalpinacolone."

Edwin Stanley Taylor, B. S. (War Service), 1919. Subject:  
History. Thesis: "The Financial History of Andrew Johnson's Administration: A Study in Reconstruction."

The Degree of Master of Arts on examination was conferred on:

Olin Winthrop Blackett, B. A., 1917. Subject: Economics.

Thesis: "An Historical and Critical Account of the Entrepreneur Theory."

John Gray Glenn, B. A., 1918. Subjects: Greek, Latin. Thesis: "The Dramatic Art of Sophocles."

Joseph Roland Smith, B. A., 1918. Subject: English Literature. Thesis: "Browning's Treatment of Sordello of Goito."

Kenneth Porter Stevens, B. A., 1918. Subject: Biology. Thesis: "The Problem of Tissue Cultivation with Special Reference to the Germ Cells of the Chick."

#### HONORARY DEGREES

The Degree of Master of Arts was conferred on:

Henry Bacon, architect.

The Degree of Doctor of Divinity was conferred on:

George Ellsworth Bishop, B. A., 1901.

Charles Wesley Burns, Bishop of the Methodist Episcopal Church.

Frederick Lincoln Flinchbaugh, B. A., 1899.

Victor Garfield Mills.

The Degree of Doctor of Civil Law was conferred on:

William Miller Collier, President of George Washington University.

The Degree of Doctor of Humane Letters was conferred on:

Robert Herndon Fife, Jr., Professor-elect of German in Columbia University.

The Degree of Doctor of Laws was conferred on:

John Cheesman Clark, B. A., 1886.

Calvin Coolidge, Governor of Massachusetts.

David George Downey, B. A., 1884.

Theodore Sommers Henderson, B. A., 1892, Bishop of the Methodist Episcopal Church.

S. Earl Taylor, General Secretary of the Interchurch World Movement.

## PUBLICATIONS.

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**ALUMNI RECORD.**—Through the liberality of Orange Judd, M. A., a Biographical Record of the Alumni of the University was published in 1869. A fourth edition of this Record, revised and corrected, was issued in June, 1911. This edition contains not only the record of alumni, revised and corrected to the date of publication, but also a list of all former students not graduates, with their residences, and such other information with reference to them as the most thorough search could obtain. It includes also a brief account of the honorary alumni and the members of the Faculty not graduates of Wesleyan. Copies of this edition may be had upon application to the librarian, W. J. James. The price of the Record, postage prepaid, is reduced to \$1.00 (paper), \$1.25 (cloth).

An address list of the living graduates, non-graduates, and honorary alumni, together with a geographical list, is published annually by the Alumni Council as one number of the *Bulletin*. Information as to change of address should be sent to the Alumni Secretary, Mr. Roy B. Chamberlin, Middletown, Conn.

**WESLEY BICENTENNIAL.**—A memorial volume was issued early in 1904 containing a full record of the celebration of the bicentennial anniversary of the birth of John Wesley by Wesleyan University at the Commencement of 1903. The book was printed by Theo. L. DeVinne & Co., of New York. It contains over 250 pages, and includes a general account of the celebration, the full text of all the addresses delivered, and an appendix giving the names of all committees, of the invited guests who were present, of all recipients of degrees, honorary and in course, and of nearly six hundred alumni who attended the celebration. It is illustrated also with several pictures of the college buildings and grounds, with two excellent portraits of John Wesley, and with portraits of the principal speakers. Applications for the memorial volume should be sent to the Librarian of Wesleyan University. Price \$1.50, postage prepaid.

SEVENTY-FIFTH ANNIVERSARY.—A memorial volume, descriptive of the celebration of the seventy-fifth anniversary of the founding of Wesleyan University, held during the Commencement week of 1906, was published in June, 1907. The volume contains a full account of all the proceedings, including the text of all the addresses, a list of the alumni attending the celebration, a list of degrees conferred, etc., and is illustrated with pictures relating to the history of the University. The historical address by Professor William North Rice and the pictures of the college, old and new, are of peculiar interest to all former students. The volume is published in a form in keeping with the interesting and valuable record it contains. Applications for this volume should be sent to the Librarian of Wesleyan University. Price one dollar, postage prepaid.

INSTALLATION VOLUME.—A volume entitled *The Installation of William Arnold Shanklin, L. H. D., LL. D.*, as Ninth President of Wesleyan University, was published in 1910. Besides an introductory account of the exercises, the book contains a verbatim report of all the speeches delivered at the various exercises of the day, reproductions of all programs and other printed matter connected with the occasion, and lists of the trustees, Faculty, delegates, invited guests, and alumni who were in attendance. A portrait of President Shanklin forms the frontispiece. The volume contains 154 pages and is neatly bound in dark red cloth. Copies may be obtained from the Librarian of the University at one dollar each.

BULLETIN.—The *Bulletin* was first issued in 1888, and has since been published twice a year (usually in May and December), under the direction of a committee of the Faculty. It contains accounts of trustee and alumni meetings, lists of recent gifts, statements of the most urgent needs of the University, changes in the Faculty and courses of study, department notes, and various other matters of interest to the alumni and friends of the institution. An additional number of the *Bulletin* will be published annually in July hereafter, containing some of the public addresses delivered at the University in the preceding year. The Annual Catalogue, and the Address List of Alumni, also published annually, appear as

numbers of the *Bulletin*. The *Bulletin* is sent to the trustees and alumni, and may be obtained by other friends of the University upon application to the Dean.

PICTURE OF THE COLLEGE.—A photogravure in sepia, fifteen by twenty-eight inches, showing the college campus and most of the college and fraternity buildings, has been published by W. T. Littig & Co., of New York. The college has a number of copies of the picture for sale to alumni and others. Price \$5.00 each. Orders should be sent to Dean F. W. Nicolson.

NECROLOGY.—A list of deceased graduates of the University is published annually in the Spring *Bulletin*. All persons who can supply information for future lists are urgently requested to communicate the same to Dean F. W. Nicolson.

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## EMPLOYMENT BUREAUS.

An employment bureau is maintained in the office of the Dean for the purpose of securing positions as teachers for graduates of the college. Those who wish to avail themselves of the opportunity thus offered are invited to register; and the alumni and friends of the college are urgently requested to inform the Dean of any vacancy coming to their notice which might be filled by a Wesleyan graduate.

An employment bureau is maintained by the Young Men's Christian Association through which needy undergraduates are aided in securing employment during the college year and the summer vacation. Those who wish to avail themselves of this opportunity are invited to register. Alumni and friends of the college are requested to inform the Secretary of the Association of any vacant positions which might be filled by Wesleyan men. No fees are charged in either bureau.

## THE ALUMNI COUNCIL.

The Alumni Council is composed of representatives elected by the thirty-five classes last graduated, and of ten members at large, elected by the Council, none of whom may be members of the Board of Trustees or of the Faculty of the college.

This basis of organization makes the Council fairly representative of the entire body of the alumni and, at the same time, gives it a distinctive character, naturally sympathetic with the administration and with the undergraduates, yet independent of both, and with a view-point of its own.

The object of the organization is to strengthen the relations of the alumni and the University, and to bring all Wesleyan graduates and non-graduates into one compact body working for the interests of the institution.

The Council maintains offices in East Hall, with an efficient equipment at the service of the alumni, which provides a ready means of communication among the alumni themselves, and between the alumni, the undergraduates, and the authorities of the college.

### OFFICERS AND MEMBERS OF THE COUNCIL, 1920-21.

#### CHAIRMAN.

Edward L. Steele, '94, 902 Main St., Hartford.

#### VICE-CHAIRMAN.

Franklin T. Kurt, '95, 553 Boylston St., Boston, Mass.

#### SECRETARY.

R. B. Chamberlin, '09, Room 2, East Hall, Middletown, Conn.

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F. I. Brown, '98,	Finance.
S. V. Coffin, '89,	Class Organizations.
C. F. Price, '02,	Publicity.
F. C. Brodhead, '11,	Alumni Associations.
C. H. Tryon, '05,	Undergraduate Activities.
G. L. Plimpton, '91,	Preparatory Schools.
W. A. Thompson, '97,	Athletics.

## MEMBERS AT LARGE.

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C. S. Neumann, '02,	R. B. Chamberlin, '09,
C. F. Price, '02,	E. D. Deremer, '10,
K. M. Goode, '04,	F. C. Brodhead, '11,
A. I. Prince, '15.	

## CLASS REPRESENTATIVES.

## CLASS.

1882 B. M. Gallien,  
 1886 J. C. Packard,  
 1887 E. S. Ninde,  
 1888 W. M. Cassidy,  
 1889 S. V. Coffin,  
 1890 W. W. Thompson,  
 1891 G. L. Plimpton,  
 1892 J. S. Pullman,  
 1893 G. H. Blakeslee,  
 1894 E. L. Steele,  
 1895 F. T. Kurt,  
 1896 W. H. Burgwin,  
 1897 W. A. Thompson,  
 1898 F. I. Brown,  
 1899 J. E. Tackaberry,  
 1900 W. MacNaughten,  
 1901 W. P. Ogden,  
 1902 R. A. Anderson,

## CLASS.

1903 H. H. Smith,  
 1904 L. De V. Day,  
 1905 C. H. Tryon,  
 1906 C. E. Hancock,  
 1907 W. C. North,  
 1908 R. W. Rice,  
 1909 H. S. Griffing,  
 1910 W. B. Holton, Jr.,  
 1911 F. T. Davis,  
 1912 H. V. Leonard,  
 1913 P. Burt,  
 1914 H. L. Pratt,  
 1915 F. B. Upham, Jr.,  
 1916 R. C. Flewelling,  
 1917 H. S. Baldwin,  
 1918 L. I. Pitt,  
 1919 A. Dodd,  
 1920 F. M. Davenport, Jr.

## ALUMNI ASSOCIATIONS.



## WESLEYAN ALUMNI CLUB OF NEW ENGLAND.

*President*—Henry Ingraham Harriman, '95, Newton, Mass.  
*Secretary*—Benning Lewis Wentworth, ex-'14, 46 Cleveland St., Melrose, Mass.

## WESLEYAN UNIVERSITY CLUB OF NEW YORK.

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*Secretary*—Francis Bourne Upham, Jr., '15, 149 Broadway, New York, N. Y.

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*President*—Ralph Walter Rymer, '00, Scranton, Pa.  
*Secretary*—R. Nelson Bennett, '97, Bennett Building, Wilkes-Barre, Pa.

## WESLEYAN ALUMNI ASSOCIATION OF NEWARK AND VICINITY.

*President*—Louis DeKoven Day, '04, Newark, N. J.  
*Vice-President*—William Morgan Grigson, '09, Hotel Alvord, East Orange, N. J.

## PHILADELPHIA WESLEYAN ALUMNI ASSOCIATION.

*President*—George Imlay Bodine, Jr., '06, Philadelphia, Pa.  
*Secretary*—Frank Chaplain Brodhead, '11, 6111 Catherine St., Philadelphia, Pa.

## WESLEYAN ALUMNI ASSOCIATION OF THE MIDDLE WEST.

*President*—John Edwin Wing, '00, Chicago, Ill.  
*Secretary*—Darrell Sully Boyd, '10, 134 S. LaSalle St., Chicago, Ill.

## WESLEYAN ALUMNI ASSOCIATION OF MAINE.

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*Secretary*—Paul Nixon, '04, Brunswick, Me.



WESLEYAN ALUMNI ASSOCIATION OF WASHINGTON, D. C.

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*Secretary*—George Wood Vinal, '06, National Bureau of Standards, Washington, D. C.

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*Secretary*—Harold Purcell Winchester, '14, 590 Morris St., Albany, N. Y.

WESLEYAN ALUMNI CLUB OF WESTERN NEW YORK.

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*Secretary*—Richard William Eaton, '12, 144 Wesley Ave., Buffalo, N. Y.

WESLEYAN ALUMNI CLUB OF DETROIT.

*President*—Frederick Wright Robbins, '80, Detroit, Mich.

*Secretary*—Perry Childs Hill, '99, Care Detroit Twist Drill Co., Detroit, Mich.

WESLEYAN ALUMNI CLUB OF CINCINNATI.

*President*—Albert Julius Nast, '68, Cincinnati, Ohio.

*Secretary*—Richard Sutton Rust, '12, Union Central Life Ins. Co., Cincinnati, Ohio.

WESLEYAN ALUMNI ASSOCIATION OF ROCHESTER, N. Y.

*President*—James Halstead Boucher, ex-'74, Rochester, N. Y.

*Secretary*—Andrew Reed Sutherland, '11, Rochester Savings Bank Bld'g., Rochester, N. Y.

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*President*—Edward Lee Steele, '94, Hartford.

*Secretary*—Harold Morton Hine, '12, 159 N. Beacon St., Hartford.

## CALENDAR.

1920.

- Sept. 23. Thursday—Matriculation Service.  
Sept. 24. Friday, 7:50 A. M.—First term begins.  
Nov. 24. Wednesday, 12:00 M.—Thanksgiving vacation begins.  
Nov. 26. Friday, 7:50 A. M.—Thanksgiving vacation ends.  
Dec. 18. Saturday, 12:00 M.—Christmas vacation begins.  
Last day for applying for winter special examinations.

1921.

## CHRISTMAS RECESS.

- Jan. 4. Tuesday, 7:50 A. M.—Christmas vacation ends.  
Jan. 27. Thursday—Mid-year examinations begin.  
Feb. 5. Saturday—Mid-year examinations end.  
Feb. 15. Tuesday—Last day for handing in Junior Exhibition essays.  
Feb. 18, 19. Friday, Saturday,—Introduction days.  
Mar. 15. Tuesday—Junior Exhibition.  
Mar. 21. Monday—Last day for applying for Junior honors.  
Mar. 23. Wednesday, 6:00 P. M.—Easter vacation begins.  
Last day for applying for spring special examinations.

## SPRING RECESS.

- Mar. 31. Thursday, 7:50 A. M.—Easter vacation ends.  
May 2. Monday—Last day for presenting prize essays.  
May 30. Monday—Memorial Day, a holiday.  
June 4. Saturday—Last day for completing work for the Master's degree, and for departmental honors.  
June 6. Monday—Annual examinations begin.  
June 15. Wednesday—Annual examinations end.  
June 17. Friday—Prize declamation contest.  
June 18. Saturday morning—Meeting of the Alumni Council.  
June 18. Saturday morning—Meeting of the Board of Trustees.  
June 18. Saturday morning—Class Day exercises.  
June 19. Sunday morning—Baccalaureate sermon.

- June 19. Sunday evening—University sermon.
- June 20. Monday morning—Annual meeting of the Phi Beta Kappa Society.
- June 20. Monday morning—COMMENCEMENT.
- June 20. Monday afternoon—Alumni luncheon.
- June 20. Monday afternoon—Social receptions by the college fraternities.
- June 20-25. Examinations of the College Entrance Examination Board.

#### VACATION OF THIRTEEN WEEKS.

- Sept. 16, 17, 19. Examination of candidates for admission.
- Sept. 20. Tuesday—Fall special examinations begin.
- Sept. 20. Tuesday—Registration of Freshmen.
- Sept. 21. Wednesday—Registration of three upper classes.
- Sept. 22. Thursday, 9:00 A. M.—Matriculation service.
- Sept. 23. Friday, 7:50 A. M.—First term begins.
- Nov. 23. Wednesday, 12:00 M. — Thanksgiving vacation begins.
- Nov. 25. Friday, 7:50 A. M.—Thanksgiving vacation ends.
- Dec. 17. Saturday, 12:00 M.—Christmas vacation begins.

1922.

#### CHRISTMAS RECESS.

- Jan. 3. Tuesday, 7:50 A. M.—Christmas vacation ends.
- Jan. 26. Thursday—Mid-year examinations begin.
- Feb. 4. Saturday—Mid-year examinations end.
- Apr. 12. Wednesday, 6:00 P. M.—Easter vacation begins.

#### SPRING RECESS.

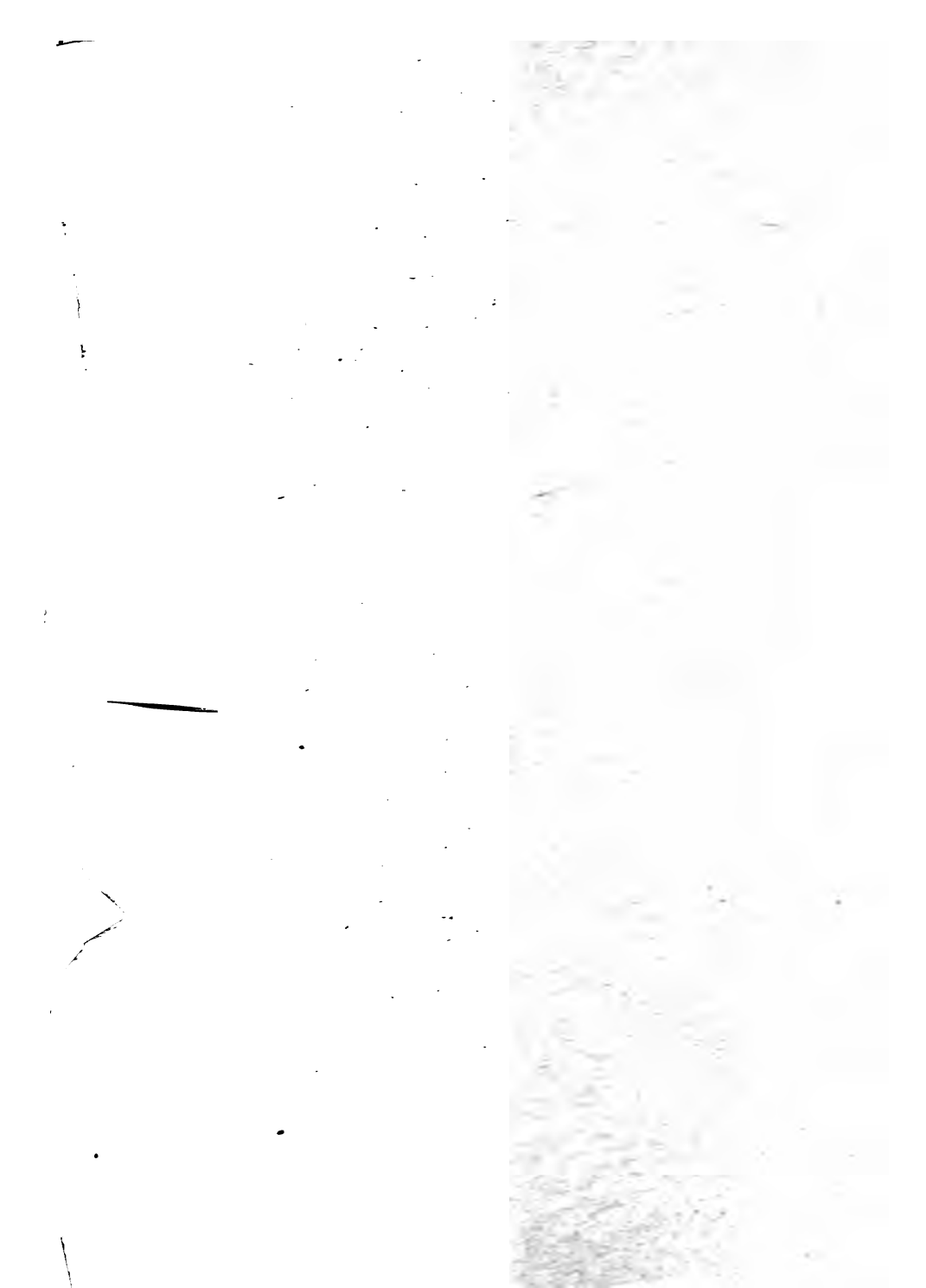
- Apr. 20. Thursday, 7:50 A. M.—Easter vacation ends.
- June 5. Monday—Annual examinations begin.
- June 14. Wednesday—Annual examinations end.
- June 19. Monday morning—COMMENCEMENT.

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CALENDAR																											
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Vol. 15

DECEMBER, 1921

No. 5

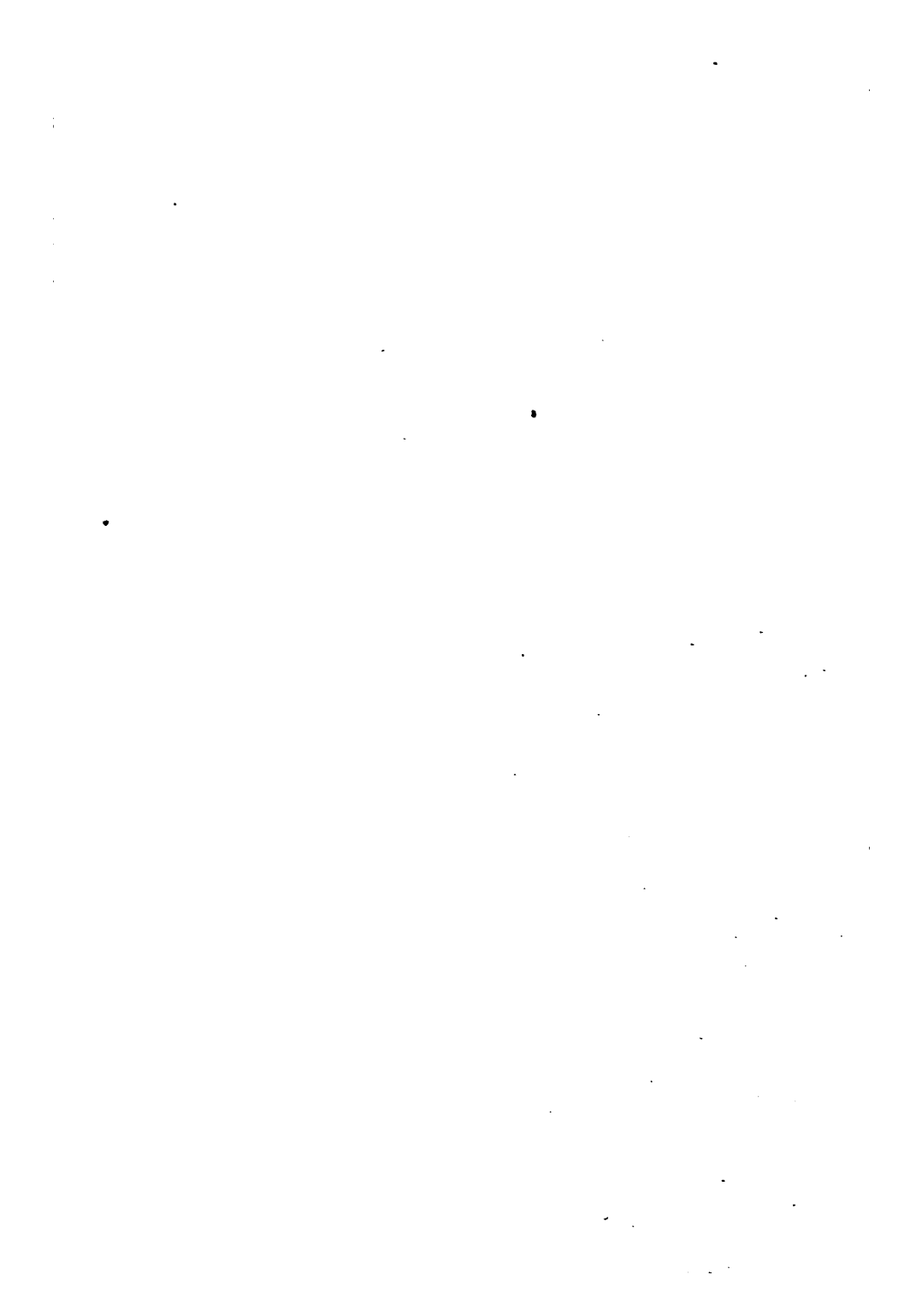
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1921-1922

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1921



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OF

**W**ESLEYAN UNIVERSITY

1921-1922



MIDDLETOWN, CONN.  
MCMXXI

## THE WESLEYAN UNIVERSITY BULLETIN:

Published by the University five times a year, in May, June, September, November, and December. Entered as second-class mail matter, June 9, 1914, at the post-office at Middletown, Connecticut, under the Act of Congress of August 24, 1912.

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† Roderick Burling Hallock,	<i>Glen Cove, N. Y.</i>	60 Home Ave.
† Frank Magee Henson,	<i>Philadelphia, Pa.</i>	$\Psi \Upsilon$ House.
† Richard Cheney Hitchcock,	<i>New London.</i>	C. C. House.
Charles Newman Hogle,	<i>Glens Falls, N. Y.</i>	$\Sigma \chi$ House.
† Keith Gilbert Holt,	<i>East Haven.</i>	$\Delta \Upsilon$ House.
Charles Worth Howard,	<i>Mannsville, N. Y.</i>	C. C. House.
Carlton Fletcher Hubbard,	<i>Center Moriches, N. Y.</i>	$\Delta \Upsilon$ House.
Archer Lewis Hurd,	<i>Somers.</i>	B $\Theta$ $\Pi$ House.
Irving Gibson Idler,	<i>Newark, N. J.</i>	A X P House.
† Raymond George Jackson,	<i>Elizabeth, N. J.</i>	$\Psi \Upsilon$ House.
Conrad Clark Johnson,	<i>Westfield, N. J.</i>	C. C. House.
† Charles Franklin Kniffen,	<i>Holly Oak, Del.</i>	$\Delta T \Delta$ House.
† William Alexander Kugler,	<i>Centreville, R. I.</i>	$\Delta T \Delta$ House.
† John Stanley Lachowicz,	<i>Middletown.</i>	19 Goodyear Ave.
William Bradford Lawton, Jr.,	<i>Pittsburgh, Pa.</i>	Eclectic House.
† Norman Robert Lee,	<i>Plainfield, N. J.</i>	$\Sigma \chi$ House.
† Harold Levine,	<i>Middletown.</i>	49 Hubbard St.
William Corson McHenry,	<i>Somerville, N. J.</i>	A X P House.
James Bliss MacLean,	<i>Brooklyn, N. Y.</i>	$\Delta T \Delta$ House.
Orlando John May,	<i>Philadelphia, Pa.</i>	C. C. House.
† Herman George Mickelson,	<i>Branford.</i>	C. C. House.
Russell Leffard Morgan,	<i>Scranton, Pa.</i>	A $\Delta \Phi$ House.
† Charles Edward Mowry,	<i>Middletown.</i>	X $\Psi$ Lodge.
Alfred George Henry Mueller,	<i>Albany, N. Y.</i>	$\Delta K E$ House.
† Isaac Nassau,	<i>Hartford. 45 Kennedy St., Hartford.</i>	
† Walter Nathaniel Nelson,	<i>Middletown.</i>	25 Cooley Ave.
Robert Edward Overhysser,	<i>Middletown.</i>	24 Wyllys St.
† Robert Wade Parsons,	<i>Elizabeth, N. J.</i>	$\Psi \Upsilon$ House.
Frank William Putnam,	<i>St. Albans, Vt.</i>	$\Delta \Upsilon$ House.
† Morris Louis Rakieten,	<i>New Haven.</i>	39 N. C.
John Carl Rash,	<i>Geneva, N. Y.</i>	C. C. House.
† Hugo Emil Rausch,	<i>Albany, N. Y.</i>	$\Delta K E$ House.
† Frank Leslie Raynor,	<i>Seaford, L. I., N. Y.</i>	$\Delta T \Delta$ House.
† Frederick Charles Reich,	<i>Jersey City, N. J.</i>	22 N. D.
† Harry Donald Richards,	<i>Royersford, Pa.</i>	A X P House.
† Carlyle Conwell Ring,	<i>Woronoco, Mass.</i>	$\Gamma \Psi$ House.
Alexander Paris Robertson,	<i>Glens Falls, N. Y.</i>	$\Psi \Upsilon$ House.

NAMES.	RESIDENCES.	ROOMS.
† Harold Frederick Robertson,	<i>Philadelphia, Pa.</i>	† Y House.
† Benjamin Rosenthal,	<i>Middletown. 220 Main St., S. Farms.</i>	
William Duncan Russell, Jr.,	<i>Wilkes-Barre, Pa.</i>	A Δ Φ House.
† Robert Alexander Scarborough,	<i>Brooklyn, N. Y.</i>	Γ † House.
† Charles Henry Schifferdecker,	<i>Greenwich.</i>	Δ T Δ House.
James Allen Scott,	<i>Binghamton, N. Y.</i>	<i>Kensington.</i>
† Elisha Adelbert Silverman,	<i>East Orange, N. J.</i>	X † Lodge.
† William Leland Sitgreaves,	<i>Peckville, Pa.</i>	Δ Y House.
† Richard Buckbee Stannard,	<i>Branford.</i>	Γ † House.
† Donald Livingston Starbuck,	<i>White Plains, N. Y.</i>	89 N. C.
Frederick Bowman Stauffer,	<i>Jersey City, N. J.</i>	31 N. D.
† Samuel Nowell Stevens,	<i>Eastport, Md.</i>	
† Wilfred Sinclair Stevenson, Jr.,	<i>Clifton Heights, Pa.</i>	<i>East Hall.</i>
Charles Alexander Stewart,	<i>South Andover, Me.</i>	C. C. House.
† Merton Horatio Strickland,	<i>Manchester.</i>	† Y House.
† Irwin Adolphus Thompson,	<i>Livermore Falls, Me.</i>	C. C. House.
† Walter Ernest Todd,	<i>Buckland.</i>	
† George Ripley Tracy,	<i>Hartford.</i>	Γ † House.
Paul Franklin Vaka,	<i>Webster, Mass.</i>	Δ Y House.
Ralph Radley Vernon,	<i>Morristown, N. J.</i>	A X P House.
Ralph Wilbur Walter,	<i>Portland.</i>	Γ † House.
Elbert Cook Weaver,	<i>Hartford.</i>	B Θ Π House.
† Edward Martin Westburg,	<i>Philadelphia, Pa.</i>	B, N. D.
† Harold Clayton Whiteley,	<i>Philadelphia, Pa.</i>	† Y House.
† Stephen Culver Williams,	<i>Scymour.</i>	Γ † House.
† Samuel Norman Williams,	<i>Philadelphia, Pa.</i>	† Y House.
† Harry Thayer Woodward,	<i>Sag Harbor, N. Y.</i>	C. C. House.
† John Mortlock Woodward,	<i>Sag Harbor, N. Y.</i>	C. C. House.
John Hubert Wubben,	<i>Colorado Springs, Col.</i>	B Θ Π House.
† Ellwood Meridyth Young,	<i>Yonkers, N. Y.</i>	B Θ Π House.

† On leave of absence.

## JUNIORS—CLASS OF 1923.

NAMES.	RESIDENCES.	ROOMS.
† James Cloyd Atkinson,	<i>Brooklyn, N. Y.</i>	Δ Υ House.
§ William Edwin Bagg, Jr.,	<i>Pittsfield, Mass.</i>	X Ψ Lodge.
† Philip Gardner Baker,	<i>Duryea, Pa.</i>	B Θ Π House.
Henry Dimmick Baldy,	<i>Mt. Airy, Pa.</i>	Δ T Δ House.
† Frederick Wesley Best,	<i>Westfield, Mass.</i>	Γ Ψ House.
Wilbur Fraser Bolen,	<i>Plainfield, N. J.</i>	C. C. House.
§ Joseph Hamilton Boyd, Jr.,	<i>Upper Montclair, N. J.</i>	<i>Eclectic House.</i>
§ Herbert Henry Brandreth,	<i>Rogersford, Pa.</i>	A X P House.
† Charles Reichard Bray,	<i>East Bangor, Pa.</i>	B Θ Π House.
John Howley Breen,	<i>New York, N. Y.</i>	126 Church St.
Harold Canute Buckingham,	<i>Wilkes-Barre, Pa.</i>	B Θ Π House.
† Philip Raymond Burchard,	<i>New Canaan.</i>	Σ N House.
George Robert Burns,	<i>Helena, Mont.</i>	16 N. C.
† Albert Quigg Butler,	<i>Seymour.</i>	76 N. C.
David Walter Byrne, Jr.,	<i>Astoria, N. Y.</i>	Δ K E House.
§ Jay Edward Caster,	<i>Richmond, Va.</i>	A X P House.
Carl Ferdinand Christianson,	<i>Cromwell.</i>	C. C. House.
† George Christopher Conway,	<i>Guilford.</i>	21 N. D.
† Irving Forrester Cook,	<i>Inwood, L. I., N. Y.</i>	Δ Υ House.
† Foster Benedict Cooper,	<i>Beacon, N. Y.</i>	C. C. House.
David Hudson Corkran, Jr.,	<i>Fort Edward, N. Y.</i>	X Ψ Lodge.
Clark Walter Davenport,	<i>Plymouth, Pa.</i>	B Θ Π House.
† Arthur Clayton Dodge,	<i>Gloversville, N. Y.</i>	C. C. House.
John Ainsworth Dunn,	<i>Gardner, Mass.</i>	<i>Eclectic House.</i>
Elwyn Arvon Ellis,	<i>Centralia, Pa.</i>	A X P House.
§ George Phillips Ellsworth,	<i>Norwich, N. Y.</i>	18 N. C.
† Miles Reisner Fasnacht,	<i>Lititz, Pa.</i>	C. C. House.
Edwin George Fisher, Jr.,	<i>East Orange, N. J.</i>	<i>Eclectic House.</i>
Bardwell Hastings Flower,	<i>West Pawlet, Vt.</i>	Σ N House.
John Emory Fricke,	<i>Swarthmore, Pa.</i>	Ψ Υ House.
John Robert Galvin,	<i>Hartford. 124 Market St., Hartford.</i>	
† William Bradford Gifford,	<i>Boston, Mass.</i>	1 N. C.
Harold Ernest Glans,	<i>Norwalk.</i>	Δ Υ House.



NAMES.	RESIDENCES.	ROOMS.
David Loomis Green,	<i>Holyoke, Mass.</i>	* Y House.
§ Alan Campbell Gregg,	<i>McKeesport, Pa.</i>	Δ Y House.
§ Elmer George Grunau,	<i>Rochester, N. Y.</i>	Δ Y House.
† John Henry Helmken,	<i>Brooklyn, N. Y.</i>	Δ T Δ House.
† James Edward Henderson,	<i>Pelham Manor, N. Y.</i>	C. C. House.
† Jonathan Robert Hoppock,	<i>Lambertville, N. J.</i>	Δ T Δ House.
† John Henry Irons, Jr.,	<i>Saratoga Springs, N. Y.</i>	Σ N House.
† Clayton Hull Jacobs,	<i>Guilford.</i>	21 N. D.
Charles Joseph Johnson,	<i>Riverside, N. J.</i>	B Θ Π House.
† William Theodore Johnson,	<i>Middletown.</i>	69 Home Ave.
† Walter Richard Kiernan,	<i>New York, N. Y.</i>	Eclectic House.
† Edward Olney King,	<i>New York, N. Y.</i>	Eclectic House.
§ Otto John Lang,	<i>Leonia, N. J.</i>	76 N. C.
† Frederick DeLand Leete, Jr.,	<i>Indianapolis, Ind.</i>	Δ K E House.
Henry Wiley Leland,	<i>Newtonville, Mass.</i>	Δ K E House.
§ Richard Day Leonard,	<i>Newtonville, Mass.</i>	C. C. House.
Noah Stanley Lincoln,	<i>Schenectady, N. Y.</i>	C. C. House.
*† Kenneth Regnold Losey,	<i>Northport, N. Y.</i>	
§ Frederick Francis Lovejoy, Jr.,	<i>East Norwalk.</i>	Σ N House.
† Osceola Currier McEwen,	<i>Newark, N. J.</i>	Δ K E House.
† George Washington McKenzie, Jr.,	<i>Brooklyn, N. Y.</i>	X ♣ Lodge.
Joseph Magnano,	<i>Middletown.</i>	40 Center St.
Robert Cheney Mansfield,	<i>New Haven.</i>	Γ ♣ House.
† Wilbur Ezra Mansfield,	<i>Danbury.</i>	12 N. D.
† John Weld Markham,	<i>Guilford.</i>	64 N. C.
† Adelbert Wilbur Meinke,	<i>Meriden.</i>	51 Elm St., Meriden.
Joseph Layton Moore,	<i>Bishop, Md.</i>	B Θ Π House.
Rising Lake Morrow,	<i>West Pawlet, Vt.</i>	Σ N House.
William Dufford Moyle,	<i>Branford.</i>	B Θ Π House.
Walton Lewis Multer,	<i>Kingston, Pa.</i>	B Θ Π House.
† Walter Major Neely,	<i>Lehman, Pa.</i>	C. C. House.
† Isaac Laird Newell,	<i>Middletown.</i>	12 Crescent St.
† John Jacob Niemann,	<i>New York, N. Y.</i>	X ♣ Lodge.
William Noble,	<i>Plymouth, Pa.</i>	32 N. D.
Hermon Norton,	<i>Mt. Hermon, Mass.</i>	* Y House.
Samuel David Pinsker,	<i>Wallingford.</i>	66 N. Cherry St., Wallingford.

\* Deceased.

NAMES.	RESIDENCES.	ROOMS.
† Samuel Davis Pinsker,	<i>Middletown.</i>	<i>202 William St.</i>
Lewis Hamlin Piper,	<i>Walton, N. Y.</i>	<i>B Θ Π House.</i>
James Arthur Pyne,	<i>Wilkes-Barre, Pa.</i>	<i>B Θ Π House.</i>
Winslow Tracy Richmond,	<i>South Manchester.</i>	<i>Eclectic House.</i>
† George Carl Richter,	<i>Middletown.</i>	<i>Δ Υ House.</i>
† Gordon Clark Ring,	<i>Woronoco, Mass.</i>	<i>I N. C.</i>
Edwin James Roberts,	<i>Hunlock's Creek, Pa.</i>	<i>Σ N House.</i>
§ Everett Albert Robison,	<i>Dunkirk, N. Y.</i>	<i>Ψ Υ House.</i>
† Victor Alexander Salloway,	<i>Maynard, Mass.</i>	<i>48 N. D.</i>
Ralph Godfrey Saxe,	<i>Madison, N. J.</i>	<i>Δ Υ House.</i>
Lawrence Allen Schminky,	<i>Philadelphia, Pa.</i>	<i>C. C. House.</i>
Russell Simmons Scudder,	<i>Paterson, N. J.</i>	<i>C. C. House.</i>
† Guy Pendexter Seeley,	<i>Mt. Vernon, N. Y.</i>	<i>X Ψ Lodge.</i>
Charles Lawrence Smith,	<i>Freeport, N. Y.</i>	<i>Δ T Δ House.</i>
† Laurance Bradford Snow,	<i>Collinsville.</i>	<i>C. C. House.</i>
† Oscar Frederick Soderman,	<i>Ansonia.</i>	<i>Δ Υ House.</i>
† Laurence Francis Southwick,	<i>Meriden. 119 Curtis St., Meriden.</i>	
George Mathew Spence,	<i>Hastings, Pa.</i>	<i>A X P House.</i>
† Asa Bertram Steeves,	<i>Hallowell, Me.</i>	<i>Eclectic House.</i>
† Charles Bragdon Stone,	<i>Middletown.</i>	<i>Ψ Υ House.</i>
† Norman Wyman Storer,	<i>Pittsburgh, Pa.</i>	<i>Γ Ψ House.</i>
Arthur Eugene Sutherland, Jr.,	<i>Rochester, N. Y.</i>	<i>Eclectic House.</i>
Coley Banks Taylor,	<i>Cannondale.</i>	<i>9 N. D.</i>
† Jesse Ireland Taylor,	<i>Lynch, Md.</i>	<i>B Θ Π House.</i>
† Ralph Thomas Tyner, Jr.,	<i>New York, N. Y.</i>	<i>Δ K E House.</i>
§ Marshall Lodge Umpleby,	<i>Uxbridge, Mass.</i>	<i>C. C. House.</i>
Peter Vogel,	<i>Wallingford.</i>	<i>124 College St.</i>
† Edbert Hilding Wall,	<i>Bridgeport.</i>	<i>255 William St.</i>
† Chester Herbert Walter,	<i>Lakewood, R. I.</i>	<i>Δ Υ House.</i>
Daniel Chester Warlow,	<i>Williamstown, Pa.</i>	<i>B Θ Π House.</i>
† Morris Herman Wrubel,	<i>Middletown.</i>	<i>238 William St.</i>
† Alfred Everett Yeaton,	<i>Darien.</i>	<i>Σ N House.</i>

## SOPHOMORES—CLASS OF 1924.

NAMES.	RESIDENCES.	ROOMS.
Frederic Henry Adams,	<i>Beirut, Syria.</i>	41 N. C.
Jarvis Munson Adams,	<i>New Haven.</i>	2 N. D.
William Fraser Aitken,	<i>New Haven.</i>	Γ Ψ House.
† Louis Ralph Arnold,	<i>Norwalk.</i>	44 N. D.
Edmond Holt Babbitt,	<i>New York, N. Y.</i>	5 N. D.
† Robert Thompson Banister,	<i>White Plains, N. Y.</i>	29 N. D.
James Warner Bellah, Jr.,	<i>Newark, N. J.</i>	A X P House.
† George Harvey Bickley, Jr.,	<i>Singapore, Malaysia.</i>	Δ T Δ House.
§ George Walker Bisset,	<i>Waterbury.</i>	X Ψ Lodge.
Willis Herbert Bowen,	<i>Logan, W. Va.</i>	Γ Ψ House.
§ Robert Fortenbaugh Bowman,	<i>Philadelphia, Pa.</i>	55 N. D.
† Radcliffe Wright Bristol,	<i>Meriden.</i>	Δ T Δ House.
† Edward Gowen Budd, Jr.,	<i>Philadelphia, Pa.</i>	Eclectic House.
§ Douglas Holland Bullock,	<i>Cold Spring, N. Y.</i>	Δ K E House.
† Maurice Lester Burrows,	<i>New York, N. Y.</i>	X Ψ Lodge.
Robert William Butler,	<i>Methuen, Mass.</i>	Δ T Δ House.
† Henry Lloyd Churchill,	<i>New York, N. Y.</i>	31 N. D.
§ Seymour Lane Cone,	<i>Bound Brook, N. J.</i>	B Θ Π House.
Norris Henry Cotton,	<i>Warren, N. H.</i>	B Θ Π House.
Edwin Arthur Cranston, Jr.,	<i>Pittsfield, Mass.</i>	13 N. D.
† Donald Hendrick Culver,	<i>Chicopee Falls, Mass.</i>	44 N. D.
§ Otto Perry Dallavo,	<i>Grand Rapids, Mich.</i>	54 N. D.
§ Frank Slade Danzoll,	<i>Vineland, N. J.</i>	B, N. D.
† Henry Shenk Davis,	<i>Erie, Pa.</i>	49 N. D.
Malvin Edward Davis,	<i>Noxen, Pa.</i>	Δ Y House.
† William Leon Day,	<i>Colchester.</i>	2 O. H.
† Curtis Hazen Deming,	<i>White Plains, N. Y.</i>	Δ T Δ House.
† James Henry Denman,	<i>Russell, Mass.</i>	Γ Ψ House.
Robert Runyon Diefendorf,	<i>East Orange, N. J.</i>	Ψ Y House.
† William Raymond Donnell,	<i>Elizabethton, Pa.</i>	4 N. D.
Richard Hadley Edwards, Jr.,	<i>Brookline, Mass.</i>	Ψ Y House.
† George Washington Emerson,	<i>East Orange, N. J.</i>	B Θ Π House.
† Victor Leonard Fox,	<i>Port Monmouth, N. J.</i>	Σ N House.

NAMES.	RESIDENCES.	ROOMS.
Richard Whitfield Freure,	<i>Brooklyn, N. Y.</i>	92 N. C.
† Alfred Kepner Fricke,	<i>Swarthmore, Pa.</i>	† Y Y House.
Fredric Worthen Frost, Jr.,	<i>Brooklyn, N. Y.</i>	† Y Y House.
§ Franklin Pierce Frye,	<i>Enfield, N. H.</i>	C. C. House.
§ John Edmund Gibbs,	<i>Mt. Vernon, N. Y.</i>	Δ K E House.
† Theodore Fredric Goldthorpe,	<i>Somersville.</i>	36 N. D.
† Everett Wallace Graham,	<i>Springfield, Mass.</i>	26 N. D.
† John Edward Gran,	<i>West Wareham, Mass. 133 College St.</i>	
† Louis Edward Jules Gregory,	<i>Parksville, B.C., Can.</i>	C. C. House.
§ Austin West Gridley,	<i>Springfield, N. J.</i>	B Θ Π House.
† Claude Robert Halford,	<i>Pittsfield, Mass.</i>	X Y Lodge.
† Samuel Jerome Hardy, Jr.,	<i>Brooklyn, N. Y.</i>	B Θ Π House.
Richard Pearson Hatfield,	<i>Scotch Plains, N. J.</i>	50 N. D.
† Willis Charles Hatfield,	<i>Concord, N. H.</i>	Δ Y House.
Warren Clark Heidel,	<i>Middletown.</i>	† Y Y House.
† Lindsay Ruthven Henry,	<i>Babylon, N. Y.</i>	68 Lawn Ave.
Edward Barton Hills,	<i>Mill Hall, Pa.</i>	23 N. D.
Lawrence Britton Hillyer, W.	<i>New Brighton, N. Y. Eclectic House.</i>	
§ Everett James Holley,	<i>Wallon, N. Y.</i>	C. C. House.
Ernest Edward Howarth,	<i>Guilford.</i>	C. C. House.
† Harvey King Hunsicker,	<i>Reading, Pa.</i>	† Y Y House.
† William Wendell Hunting,	<i>Albany, N. Y.</i>	Δ K E House.
† Frank Avery Ineson,	<i>Waterbury.</i>	8 N. C.
† Mylon Cecil Jacobs,	<i>Skowhegan, Me.</i>	Δ T Δ House.
† Henry Johnson James,	<i>Provincetown, Mass.</i>	101 N. C.
John Joseph Jennings, Jr.,	<i>Newark, N. J.</i>	A X P House.
§ Henry Lawrence Jones,	<i>Wilkes-Barre, Pa.</i>	A Δ Φ House.
Donald Allen Keenan,	<i>Boston, Mass.</i>	A X P House.
† Charles Augustine Kellogg,	<i>Hudson Falls, N. Y.</i>	† Y Y House.
† William Henry Kelly, Jr.,	<i>Albany, N. Y.</i>	A Δ Φ House.
§ Charles Wesley Ketler,	<i>Westwood, N. J.</i>	Δ T Δ House.
† Landrum Milton Knight,	<i>Lewiston, Me.</i>	C. C. House.
§ Charles Elliott Knoke,	<i>Brooklyn, N. Y.</i>	X Y Lodge.
Edwin Blackwell Knowles, Jr.,	<i>Germantown, Pa.</i>	† Y Y House.
Leland Ellsworth LaGanke,	<i>East Cleveland, Ohio.</i>	A Δ Φ House.
† William John Laramy,	<i>Easton, Pa.</i>	85 N. C.
Charles McLane Lester,	<i>Lakeville.</i>	<i>Eclectic House.</i>
§ Samuel Benajah Link,	<i>Stamford.</i>	X Y Lodge.

NAMES.	RESIDENCES.	ROOMS.
† Frederick Earle Lord, Jr.,	<i>Warehouse Point.</i>	<i>C. C. House.</i>
† Anson Crawford Lowitz,	<i>New York, N. Y.</i>	$\Delta$ K E House.
† John MacDonald,	<i>Bergenfield, N. J.</i>	$\Sigma$ N House.
† Edward Chapman McEachran,	<i>Glens Falls, N. Y.</i>	$\Psi$ Y House.
† Raymond McInnes,	<i>Brooklyn, N. Y.</i>	<i>Eclectic House.</i>
† Alfred Crane McKenzie,	<i>Brooklyn, N. Y.</i>	X $\Psi$ Lodge.
Robert Dykes McLaren,	<i>Phoenicia, N. Y.</i>	<i>C. C. House.</i>
† George John Mack,	<i>Cranford, N. J.</i>	$\Gamma$ $\Psi$ House.
John Hendy Maddaford,	<i>Honesdale, Pa.</i>	49 N. D.
Walter Dubois Miles,	<i>Mt. Vernon, N. Y.</i>	X $\Psi$ Lodge.
Waldo Burnett Miller,	<i>Swarthmore, Pa.</i>	101 N. C.
Allison Hoyt Mitchell,	<i>Taunton, Mass.</i>	11 College Pl.
† Francis Keiter Moll,	<i>Pottsville, Pa.</i>	99 N. C.
† Dwight Charles Moon,	<i>Carbondale, Pa.</i>	22 N. D.
† George Washington More, Jr.,	<i>Ridgewood, N. J.</i>	32 N. D.
Charles Lewis Murdock,	<i>New Haven.</i>	A $\Delta$ $\Phi$ House.
† Charles Francis Nettleship, Jr.,	<i>Newark, N. J.</i>	$\Sigma$ N House.
Ernest Dressel North, 2nd,	<i>Upper Montclair, N. J.</i>	2 N. D.
† Carl Walter Olson,	<i>Elmsford, N. Y.</i>	$\Delta$ K E House.
§ Charles Oscar Peterson,	<i>Hallock, Minn.</i>	27 N. D.
† Delcour Stephen Potter,	<i>Glens Falls, N. Y.</i>	$\Psi$ Y House.
† Stanley Hemmingway Purdy,	<i>Bridgeport.</i>	$\Gamma$ $\Psi$ House.
† Soren Douglas Rees,	<i>Minneapolis, Minn.</i>	<i>Eclectic House.</i>
† Harry Morton Reynolds, Jr.,	<i>Grand Rapids, Mich.</i>	82 N. C.
† Floyd Clark Rule,	<i>Meriden.</i>	$\Sigma$ N House.
† Harold Sanderson,	<i>North Abington, Mass.</i>	$\Delta$ Y House.
Earl Russell Sandstrom,	<i>New Britain.</i>	X $\Psi$ Lodge.
§ Charles Avery Sanford,	<i>Hadlyme.</i>	A X P House.
† Rexford Nichols Saxton,	<i>Uxbridge, Mass.</i>	<i>C. C. House.</i>
† Charles Baxter Schröder,	<i>Mystic.</i>	$\Delta$ T $\Delta$ House.
† Edwin Palmer Scriggins,	<i>East Orange, N. J.</i>	B $\Theta$ $\Pi$ House.
† Theophilus Karnaghan Seiberling,	<i>Akron, Ohio.</i>	A $\Delta$ $\Phi$ House.
† Calvin Sidney Smith,	<i>Middletown.</i>	51 Park Place.
Monroe William Smith,	<i>Glens Falls, N. Y.</i>	$\Delta$ Y House.
† Malcolm Drake Spinning,	<i>Bloomfield, N. J.</i>	56 N. D.
† Julian Kingsley Stevens,	<i>West Hartford.</i>	35 N. C.
§ William Roseberry Stocker,	<i>New York, N. Y.</i>	A X P House.
† Philip John Stomberg,	<i>Middletown.</i>	275 William St.

NAMES.	RESIDENCES.	ROOMS.
† Gustave Louis Straub,	<i>New York, N. Y.</i>	¶ Υ House.
Francis Cowles Strickland,	<i>Manchester.</i>	9 N. D.
† Zenas Monroe Sykes,	<i>New York, N. Y.</i>	Σ N House.
Rollin Tarleton,	<i>Nutley, N. J.</i>	Δ K E House.
Roy Townsend Thawley,	<i>Wethersfield.</i>	<i>Wethersfield.</i>
Evan Russell Thomas,	<i>Brockton, Mass.</i>	43 N. D.
George Ross Thomas,	<i>Philadelphia, Pa.</i>	Δ T Δ House.
† John Cranwill Thompson,	<i>Greenwich.</i>	¶ Υ House.
† Howard Robert Tryon,	<i>Berlin, N. Y.</i>	13 N. D.
James Joseph Walsh,	<i>Meriden.</i>	101 Spring St.
† Mead Walworth,	<i>New Rochelle, N. Y.</i>	Σ N House.
Stuart Gallagher Webb,	<i>Meriden. 43 Kensington Ave., Meriden.</i>	
Cutler DeLong West,	<i>Glens Falls, N. Y.</i>	X ¶ Lodge.
† Clarence Oliver Wheeler,	<i>Hammondsport, N. Y. 116 Mt. Vernon St.</i>	
Francis Daniel Wiener,	<i>New York, N. Y.</i>	<i>Eclectic House.</i>
† John Bayard Wight, Jr.,	<i>Hartford.</i>	Σ N House.
Edwin Whitmore Wilkinson,	<i>New York, N. Y.</i>	29 N. D.
† William Watson Woodford,	<i>Hartford.</i>	B Θ Π House.
† Robert Harold Wrubel,	<i>Middletown.</i>	21 Pearl St.
† Charles William Yerkes,	<i>West Orange, N. J.</i>	A Δ Φ House.

## FRESHMEN—CLASS OF 1925.

NAMES.	RESIDENCES.	ROOMS.
† Henry Richard Ahrens,	<i>Staten Island, N. Y.</i>	54 N. D.
† Frederick Otwell Anderson,	<i>Yonkers, N. Y.</i>	Δ T Δ House.
½ Percy Edward Bahret,	<i>Poughkeepsie, N. Y.</i>	77 N. C.
† James Stanley Ballard,	<i>Baltimore, Md.</i>	13 O. H.
† James Johnston Bancker,	<i>Basking Ridge, N. J.</i>	47 N. D.
John Clarke Barber,	<i>Montclair, N. J.</i>	79 N. C.
† Avery Wells Barnes,	<i>Clinton.</i>	5 N. C.
Leonard Brothwell Beach,	<i>Elmhurst, N. Y.</i>	163 High St.
† James Randolph Beard, Jr.,	<i>Brooklyn, N. Y.</i>	20 N. C.
† Herbert Dunning Beck,	<i>North Andover, Mass.</i>	9 N. C.
Robert Powel Bedell,	<i>Floral Park, N. Y.</i>	5 N. C.
½ Stephen Berrien,	<i>Montclair, N. J.</i>	8 N. D.
Albert Cooke Bill, Jr.,	<i>Hartford.</i>	86 N. C.
† John Althaus Bliss,	<i>Brooklyn, N. Y.</i>	57 N. C.
Henry Raymond Bonville,	<i>Fair Haven, Vt.</i>	13 N. C.
† Paul Wesley Borthwick,	<i>Nyack, N. Y.</i>	12 N. C.
† George Mosher Bramann,	<i>Bridgeport.</i>	26 N. C.
† Harry Tailor Brisbin, Jr.,	<i>Omaha, Nebr.</i>	10 N. D.
† Arthur Watson Bromage,	<i>Warehouse Point.</i>	16 O. H.
Lynn Harry Brown,	<i>Sayre, Pa.</i>	Γ Ψ House.
† Neil Wagner Brown,	<i>West Haven.</i>	D, N. D.
§ Richard Day Burritt,	<i>Waterbury.</i>	C. C. House.
§ Howard Clendon Bush,	<i>Glens Falls, N. Y.</i>	42 N. D.
† Thomas William Cantwell, Jr.,	<i>Albany, N. Y.</i>	15 N. C.
Norman Carpenter,	<i>Germantown, Pa.</i>	87 N. C.
§ Ralph William Carr,	<i>Brooklyn, N. Y.</i>	62 N. C.
† Earl Cranston Catland,	<i>Lewiston, Me.</i>	343 Washington St.
† Sidney Hammond Challenger,	<i>Middletown.</i>	144 High St.
§ Lewis Wesley Stephen Chapman,	<i>New Britain.</i>	71 N. C.
† John Kinson Churchill,	<i>New York, N. Y.</i>	29 N. C.
§ Douglass Whitney Clark,	<i>Milford.</i>	C, N. D.
† Harlan Way Clifton,	<i>Montclair, N. J.</i>	10 N. D.
Frank Theodore Cloak,	<i>Philadelphia, Pa.</i>	30 N. D.

NAMES.	RESIDENCES.	ROOMS.
Churchill Ransom Coe,	<i>Stamford, N. Y.</i>	35 N. D.
† Richards Justice Conly,	<i>Germantown, Pa.</i>	20 N. C.
† Howard Coonley, Jr.,	<i>Boston, Mass.</i>	52 N. D.
† Ulrich Eberhardt Craig,	<i>Bernardsville, N. J.</i>	47 N. D.
§ Howard Houghton Cutting,	<i>Rockland, Mass.</i>	281 High St.
Stanley Irvin Davenport, Jr.,	<i>Plymouth, Pa.</i>	47 N. D.
† Clifton Harling Day,	<i>Melrose, Mass.</i>	48 N. C.
§ Lewis Thompson Decker,	<i>Bernardsville, N. J.</i>	47 N. D.
§ Christian Justus Doenecke, Jr.,	<i>Brooklyn, N. Y.</i>	18 N. C.
Donald Morgan Doughty,	<i>Roslyn Heights, N. Y.</i>	12 N. C.
† Herbert Daniel Drewes,	<i>Mamaroneck, N. Y.</i>	71 N. C.
† Wallace Earl Drummond,	<i>Forest Hills, N. Y.</i>	13 O. H.
† Irving Wilson Dudley,	<i>Guilford.</i>	33 N. D.
Theodore Beitel Dunn,	<i>Hackensack, N. J.</i>	69 N. C.
Julian Webb Edgcomb,	<i>Syracuse, N. Y.</i>	4 N. C.
† Clifford Stuart Ensinger,	<i>New Rochelle, N. Y.</i>	54 N. C.
† Donald Wood Fairchild,	<i>Cannondale.</i>	1 O. H.
† Arden Albert Flint,	<i>Albany, N. Y.</i>	1 N. D.
† Earl William Flosdorf,	<i>Philadelphia, Pa.</i>	45 N. D.
† Foster Valentine Follett,	<i>Montclair, N. J.</i>	30 N. C.
Donald Welch Fowler,	<i>Lebanon, N. H.</i>	46 N. D.
† Everett Leon Francis,	<i>Middletown.</i>	50 S. Main St.
† Herman Mandel Freyberg,	<i>New Rochelle, N. Y.</i>	38 N. C.
† Donald Goble Fuller,	<i>Canaan.</i>	57 N. C.
† Henry Gallien, Jr.,	<i>Albany, N. Y.</i>	3 N. D.
Jesse Charles Gearhart,	<i>Millerstown, Pa.</i>	7 N. C.
Ernest Clarence George, Jr.,	<i>Wilkes-Barre, Pa.</i>	26 N. D.
Clarence McLean Gifford,	<i>Utica, N. Y.</i>	3 N. C.
† Albert Grevirson Glading,	<i>Philadelphia, Pa.</i>	A Δ Φ House.
§ Herbert MacMillan Gould,	<i>Ardmore, Pa.</i>	93 N. C.
† Norman Booth Grant,	<i>New York, N. Y.</i>	43 N. D.
James Emery Greer,	<i>Mystic.</i>	12 O. H.
§ Harold William Griffis,	<i>Gloversville, N. Y.</i>	71 N. C.
† Lloyd Heywood Hall,	<i>East Orange, N. J.</i>	27 N. C.
† Sanford Loomis Hammond,	<i>Derby.</i>	33 N. C.
† Horace Barstow Hare,	<i>Minneapolis, Minn.</i>	24 N. C.
Clarence Sisson Hastings,	<i>Middletown.</i>	386 Washington St.
§ Ernest Hawkins,	<i>Brook Haven, N. Y.</i>	46 N. C.



NAMES.	RESIDENCES.	ROOMS.
† Howard Elliot Haynes,	<i>Hoosick Falls, N. Y.</i>	19 O. H.
† John Dennisson Hecox,	<i>Albany, N. Y.</i>	3 N. D.
† Charles Stuart Henderson,	<i>Farmington.</i>	91 N. C.
Kenneth Miller Hill,	<i>Noank.</i>	12 O. H.
† Roswell Frederick Hinkelman,	<i>Waterbury.</i>	67 N. C.
§ John Osborne Hobson,	<i>New York, N. Y.</i>	51 N. D.
§ Raleigh Adams Holden,	<i>West Roxbury, Mass.</i>	53 N. D.
† Gerard Guion Horstman,	<i>Mount Vernon, N. Y.</i>	60 N. C.
† Irvil Nathaniel Howard,	<i>Springfield, Mass.</i>	15 O. H.
Hillis Langhorne Howie,	<i>Indianapolis, Ind.</i>	59 N. C.
Frederick George Hubach,	<i>Newark, N. J.</i>	42 N. C.
† Harry Hunter,	<i>Dorchester, Mass.</i>	53 N. D.
† Floyd Marshall Ineson,	<i>Waterbury.</i>	67 N. C.
† Edward Alfred Jacobson,	<i>Ossining, N. Y.</i>	10 O. H.
Carl Valdemar Johnson,	<i>Portland. 285 Main St., Portland.</i>	
§ Sidney Alexander Johnson,	<i>Bridgeport.</i>	7 N. C.
Dayton Lewis Jones,	<i>Saratoga Springs, N. Y.</i>	24 N. D.
† Ralph William Jones,	<i>Saratoga Springs, N. Y.</i>	24 N. D.
Richard Leroy Jones,	<i>Springfield, Mass.</i>	32 N. C.
† Hermann Hans Kind,	<i>Staten Island, N. Y.</i>	96 N. C.
† Harold John Knoeppel,	<i>New York, N. Y.</i>	51 N. D.
† Harvey Andrew Kuntzelman,	<i>Williamstown, Pa.</i>	68 N. C.
§ Russell Leake,	<i>Roselle, N. J.</i>	1 N. D.
† James Eveland Lemmertz,	<i>Jersey City, N. J.</i>	28 N. D.
§ Clifford Thomas Lent,	<i>Peekskill, N. Y.</i>	83 N. C.
† Donald William Leonard,	<i>Newtonville, Mass.</i>	13 N. C.
† Harold Edward Lester,	<i>Newark, N. J.</i>	20 N. C.
† Harold Reuben Lockhart,	<i>Bridgeport.</i>	30 N. C.
§ Joseph Rippel Lockwood,	<i>Greenwich.</i>	6 O. H.
† Bascom Bradshaw Lotspeich,	<i>Atlanta, Ga. 145 Broad St.</i>	
Raymond Lounsbury,	<i>Tioga Center, N. Y. Cromwell.</i>	
† Warren Lozier,	<i>Newark, N. J.</i>	52 N. C.
§ Hector Hitchings Lyman,	<i>Montclair, N. J.</i>	8 N. D.
§ Theodore Cushing Lyman,	<i>Montclair, N. J.</i>	4 N. D.
† Arthur McDonald,	<i>Middletown. 343 Washington St.</i>	
† J. Frank McDonald, Jr.,	<i>Brooklyn, N. Y. A Δ Φ House.</i>	
† James Charles McDonough,	<i>Albany, N. Y.</i>	44 N. C.
† Ernest Barton McLane,	<i>Cromwell. 4 Miles Ave.</i>	

NAMES.	RESIDENCES.	ROOMS.
† Thomas Norman Machemer, Paul Marcus,	<i>Royersford, Pa.</i> <i>New Rochelle, N. Y.</i>	56 N. D. <i>C. C. House.</i>
§ Harold Conrad Martin,	<i>Elizabeth, N. J.</i>	29 N. C.
† Thomas Stahl Marvel, Jr.,	<i>Cornwall-on-Hudson, N. Y.</i>	95 N. C.
† Richard Barnett Maxwell,	<i>Winona, Minn.</i>	7 N. D.
† Spencer Barrett Meredith,	<i>Hartford.</i>	80 N. C.
Samuel Marvin Middlebrook,	<i>Wilton.</i>	1 O. H.
† William Buchanan Millar, Jr.,	<i>Upper Montclair, N. J.</i>	D, N. D.
† John Porter Mills,	<i>Brooklyn, N. Y.</i>	77 N. C.
Charles Robert Mingins,	<i>Methuen, Mass.</i>	9 N. C.
† Joseph Theodore Mirtl,	<i>West Willington.</i>	52 N. C.
† Fred Whitby Montgomery,	<i>Westfield, N. J.</i>	X ♣ <i>Lodge.</i>
† George Wells Moody,	<i>East Northfield, Mass.</i>	B ♠ <i>House.</i>
† Richard Owens Morgan,	<i>Yonkers, N. Y.</i>	28 N. D.
† Albion Harold Mosher,	<i>Portland, Me.</i>	9 O. H.
† Clarence Raymond Moss,	<i>Ballardvale, Mass.</i>	48 N. C.
§ Harold Moss,	<i>Bridgeport.</i>	26 N. C.
Zenas Franklin Neumeister,	<i>Dalton, Mass.</i>	36 N. C.
† Jesse Thompson Nicholson,	<i>Camden, N. J.</i>	20 O. H.
† Willis Durell Northrup,	<i>Carmel, N. Y.</i>	20 O. H.
† Richard James O'Brien,	<i>Portland.</i>	<i>Portland.</i>
John Oddy,	<i>Skowhegan, Me.</i>	79 N. C.
† William Arvid Olson,	<i>Derby.</i>	33 N. C.
Aaron Joseph Palmer,	<i>Middletown. 183 Main St., S. Farms.</i>	
† Charles Byron Parbury,	<i>New Rochelle, N. Y.</i>	83 N. C.
† Merrill Reeves Patterson,	<i>Albany, N. Y.</i>	3 N. C.
† Herbert Minty Peterson,	<i>Devon.</i>	C, N. D.
† Harry Hungerford Spooner Phillips, Jr.,	<i>New York, N. Y.</i>	11 O. H.
† Bertram Lee Pickard,	<i>New York, N. Y.</i>	23 N. C.
† William James Pilat,	<i>New York, N. Y.</i>	3 O. H.
† Harold Frederick Plaisted,	<i>Hudson Falls, N. Y.</i>	69 N. C.
§ Milton Arthur Platt,	<i>Milford.</i>	C, N. D.
Morris Poliner,	<i>Middletown.</i>	548 <i>Main St.</i>
† George Forbes Porter,	<i>Barre, Mass.</i>	17 O. H.
§ Herbert Langley Price,	<i>Malden-on-Hudson, N. Y.</i>	7 O. H.
† Marshall Shreve Price,	<i>Boston, Mass.</i>	52 N. D.
† William Wilcox Prout,	<i>Suffield.</i>	42 N. D.
† Russell Diven Rappel,	<i>Lynbrook, N. Y.</i>	275 <i>William St.</i>

NAMES.	RESIDENCES.	ROOMS.
§ Edgar Reeve,	<i>New York, N. Y.</i>	X & Lodge.
† Robert Bertram Rex,	<i>St. Petersburg, Fla.</i>	48 N. D.
† Robert Irving Reynolds,	<i>Petersburg, N. Y.</i>	19 O. H.
† Raymond Stewart Riday,	<i>Germantown, Pa.</i>	87 N. C.
† William Ashton Roberts,	<i>Newark, N. J.</i>	6 N. D.
§ Edward Townsend Rodenbeck,	<i>New York, N. Y.</i>	56 N. C.
† Harold Duane St. John,	<i>Nutley, N. J.</i>	44 N. D.
† Merritt Pardee Sarles,	<i>Mt. Kisco, N. Y.</i>	14 N. D.
§ Howard Alvin Schweiker,	<i>Albany, N. Y.</i>	45 N. C.
Franklin Adolph Seiler,	<i>New York, N. Y.</i>	96 N. C.
† Milton Leonard Severance,	<i>Easthampton, Mass.</i>	17 O. H.
Philip Boies Sharpe,	<i>Greenwich, N. Y.</i>	16 O. H.
George Anderson Shipman,	<i>Saratoga Springs, N. Y.</i>	36 N. C.
† John Stanley Sills,	<i>Dixfield, Me.</i>	51 N. C.
§ Henry Davis Silverman, Jr.,	<i>East Orange, N. J.</i>	27 N. C.
† Max Louis Slutzky,	<i>Middletown.</i>	184 Prospect St.
† Arthur Gordon Smith,	<i>Kew Gardens, N. Y.</i>	62 N. C.
Charles Arthur Smith,	<i>Comstock, N. Y.</i>	142 High St.
Standish Oscar Smith,	<i>Philadelphia, Pa.</i>	A, N. D.
† William Wallace Smith,	<i>Chatham.</i>	Chatham.
Robert McConnell Snodgrass,	<i>East Orange, N. J.</i>	73 N. C.
Willard Benjamin Spalding,	<i>Watertown, Mass.</i>	48 N. C.
Avery Marion Spear,	<i>Livermore Falls, Me.</i>	95 N. C.
† Donald Webb Stewart,	<i>Baltimore, Md.</i>	54 N. C.
† Richard Hebble Stewart,	<i>Elmhurst, N. Y.</i>	13 O. H.
† Ralph Frank Stockton,	<i>Swarthmore, Pa.</i>	A, N. D.
† Harold Frederick Strohson,	<i>Lynbrook, N. Y.</i>	275 William St.
† Theodore Roosevelt Studwell,	<i>Brooklyn, N. Y.</i>	445 High St.
† Donald Balch Summers,	<i>Maplewood, N. J.</i>	Σ N House.
§ Thomas Ross Sutton,	<i>Prattsville, N. Y.</i>	35 N. D.
† Joseph Raymond Swain,	<i>Ossining, N. Y.</i>	18 O. H.
Harry Oliver Swett,	<i>Lynn, Mass.</i>	12 N. C.
Arthur Carlyle Talmadge,	<i>Springfield, Mass.</i>	46 N. D.
§ Levergne Andrus Taylor,	<i>Meriden.</i>	16 N. D.
† Rodney Tenney Taylor,	<i>Stamford.</i>	1 N. D.
† Harold Eben Terry,	<i>Waterbury.</i>	48 N. D.
Frederick Chynoweth Thomas, Jr.,	<i>Philadelphia, Pa.</i>	30 N. D.
Edward Arthur Tyler,	<i>Bridgeport.</i>	25 N. D.

NAMES.	RESIDENCES.	ROOMS.
† Harold Evans Ulland,	<i>Cincinnati, O.</i>	A Δ Φ House.
Arthur Burton Umpleby,	<i>Uxbridge, Mass.</i>	32 N. C.
§ Edwin Gerard Van Horson,	<i>Mt. Vernon, N. Y.</i>	61 N. C.
† John Hawthorne Van Surdam,	<i>Hoosick Falls, N. Y.</i>	19 O. H.
† Irving Longfellow Vaughan,	<i>Groveland, Mass.</i>	86 N. C.
† John Emibart Vilen,	<i>New Rochelle, N. Y.</i>	38 N. C.
Allyn Andrews Walters,	<i>Binghamton, N. Y.</i>	11 O. H.
† John Lyttleton Washbourne,	<i>New York, N. Y.</i>	10 N. D.
§ Percy Robert Washington,	<i>New Britain. 315 Church St., N. Britain.</i>	
§ Holly Scofield Weed,	<i>White Plains, N. Y.</i>	Δ T Δ House.
† Donald Murray White,	<i>New York, N. Y.</i>	D, N. D.
§ John Cecil Rushworth Whiteley,	<i>Philadelphia, Pa.</i>	59 N. C.
† Paul Ormonde Whitfield,	<i>Newark, N. J.</i>	A X P House.
† Dwight Hodson Woods,	<i>Greenwich.</i>	98 N. C.
Trevor Brewster Yates,	<i>Philadelphia, Pa.</i>	45 N. D.
Fred Edward Ziegler,	<i>New York, N. Y.</i>	82 N. C.

**SPECIAL STUDENTS.**

NAMES.	RESIDENCES.	ROOMS.
Harry Gerald Berglund,	<i>Farstarp, Sweden.</i>	Γ ♯ House.
James Edward Durkin,	<i>Lexington, Mass.</i>	Σ N House.
Carlos Bent Ellis, Jr.,	<i>Springfield, Mass.</i>	X ♯ Lodge.
John Norville Gibson Finley,	<i>Baltimore, Md.</i>	
	<i>Berkeley Divinity School.</i>	
Abner Saul Levison,	<i>Middletown.</i>	41 Hotchkiss St.

## ABBREVIATIONS.

[illegible]

[illegible]

UNITED STATES.

New York,	-	-	-	158	Rhode Island,	-	-	-	2
Connecticut,	-	-	-	140	Michigan,	-	-	-	2
New Jersey,	-	-	-	71	Indiana,	-	-	-	2
Pennsylvania,	-	-	-	67	Colorado,	-	-	-	1
Massachusetts,	-	-	-	53	Florida,	-	-	-	1
Maine,	-	-	-	12	Delaware,	-	-	-	1
Maryland,	-	-	-	6	Montana,	-	-	-	1
New Hampshire,	-	-	-	4	Virginia,	-	-	-	1
Vermont,	-	-	-	4	West Virginia,	-	-	-	1
Minnesota,	-	-	-	4	Nebraska,	-	-	-	1
Ohio,	-	-	-	3	Georgia,	-	-	-	1

Canada,	-	-	-	-	1	Malaysia,	-	-	-	1
Sweden,	-	-	-	-	1	Syria,	-	-	-	1
Total,	-	-	-	-	-	-	-	-	-	540

## GENERAL STATEMENT.

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**Courses of Study.**—The College presents to its undergraduates the option of three parallel courses of study, each extending through four years, and leading respectively to the degrees of Bachelor of Arts, Bachelor of Philosophy, and Bachelor of Science. Students in each of the courses are required to take English in the Freshman year, and physical education in each of the first three years. Candidates for the B. A. degree must take a three-hour course in either Latin or Greek, and two three-hour courses in either German or French, if not presented for admission, unless the student takes both Latin and Greek. Candidates for the Ph. B. degree must take two three-hour courses in both German and French, if not presented for admission; a three-hour course each in logic and psychology, in history, and in economics; and a three-hour course in mathematics, if not presented for admission. Candidates for the B. S. degree must take two three-hour courses in both German and French, if not presented for admission, a three-hour course in mathematics, and a three-hour course in either physics or chemistry. The remainder of the work for the first two years must be distributed among certain departments of study, in accordance with various regulations which are intended to secure generalization. For the last two years the student must take nine hours of a major study, around which shall be arranged six other hours of work, thus forming a concentration group. The remaining work of the last two years is elective.

**Special Courses.**—Students over twenty-one years of age who do not desire to complete any of the foregoing courses may receive instruction in such studies as they may select, provided they prove themselves, upon examination, qualified to pursue them with advantage. It should, however, be understood that this provision is intended for the benefit, not of those students

who are incompetent to take one of the regular courses, but of those who have already obtained a preliminary education so thorough as to enable them to pursue with advantage extended courses of study in particular departments. Such special students will be expected to attend all exercises assigned them, and will be subject to all the general rules of the college.

**Graduate Studies.**—Extended instruction is given to those who wish to pursue graduate courses of study in any of the departments. These courses are intended for those who do not desire to become candidates for the Master's degree, as well as for those who apply for admission to candidacy for such degree. The work of such students, whether candidates for a degree or not, is under the direction of the Committee on Graduate Instruction. The work of a graduate student may consist of undergraduate courses which he has not already completed, or work outside the curriculum assigned by his instructors, or both.



## REQUIREMENTS FOR ADMISSION.

For admission without condition to the B. A. course the candidate must secure credit for  $14\frac{1}{2}$  units, a unit representing a year's work in a secondary school with four or five periods a week, and constituting approximately a quarter of a full year's work. The requirement for admission to the Ph. B. or the B. S. course is 15 units. Not more than four units of credit will be allowed in any subject.

**B. A. DEGREE.**—Candidates for the B. A. degree must present English, 3 units, Elementary Algebra,  $1\frac{1}{2}$  or 2 units, Plane Geometry, 1 unit, and either Latin, 4 units, or Greek, 3 units; making a total of  $8\frac{1}{2}$  to 10 units. The remaining units to make up a total of  $14\frac{1}{2}$  may be selected from any of those specified below, but candidates are strongly advised to include Ancient History in their choice.

**PH. B. or B. S. DEGREE.**—Candidates for the Ph. B. or B. S. degree must present English, 3 units, Elementary Algebra,  $1\frac{1}{2}$  or 2 units, Plane Geometry, 1 unit, and either four units of foreign languages, or three units of a modern language; making a total of  $8\frac{1}{2}$  to 10 units. The remaining units to make up a total of 15 may be selected from any of those specified below.

### SCALE OF VALUES.

	Units.
English, 4 years, - - - - -	3
Latin, 2 years, - - - - -	2
3rd year, - - - - -	1
4th year, - - - - -	1
Greek, 2 years, - - - - -	2
3rd year, - - - - -	1
German—Elementary, 2 years, - - -	2
Intermediate, 3rd year, - - -	1
† French—Elementary, 2 years, - - -	2
Intermediate, 3rd year, - - -	1

† Spanish is accepted as a substitute for French.

	Units.
History—Ancient History, - - - -	1
Mediaeval and Modern History, -	$\frac{1}{2}$ or 1 *
English History, - - - -	$\frac{1}{2}$ or 1 *
American History, - - - -	$\frac{1}{2}$ or 1 *
Modern History, - - - -	1
Mathematics—Algebra to Quadratics, -	1
Quadratics and beyond, - -	$\frac{1}{2}$ or 1 *
Plane Geometry, - - - -	1
Solid Geometry, - - - -	$\frac{1}{2}$
Advanced Algebra, - - - -	$\frac{1}{2}$
Plane Trigonometry, - - - -	$\frac{1}{2}$
Physics, theoretical and practical, -	1
Chemistry, theoretical and practical, -	1
Physical Geography, - - - -	$\frac{1}{2}$ or 1 *
Biology, - - - - - - - -	$\frac{1}{2}$ or 1 *

## REQUIREMENTS IN DETAIL.

### ENGLISH.

NOTE. The requirement in English will be somewhat changed, beginning in 1923. A pamphlet stating the new requirements may be obtained from the Dean.

The study of English in school has two main objects, which should be considered of equal importance: (1) command of correct and clear English, spoken and written; (2) ability to read with accuracy, intelligence, and appreciation, and the development of the habit of reading good literature with enjoyment.

### GRAMMAR AND COMPOSITION.

The first object requires instruction in grammar and composition. English grammar should ordinarily be reviewed in the secondary school; and correct spelling and grammatical accuracy should be rigorously exacted in connection with all written work. The principles of English composition governing punctuation, the use of words, sentences, and paragraphs should be thoroughly mastered; and practice

\* Depending on the length of the course.

in composition, oral as well as written, should extend throughout the secondary school period. Written exercises may well comprise letter-writing, narration, description, and easy exposition and argument. It is advisable that subjects for this work be taken from the student's personal experience, general knowledge, and studies other than English, as well as from his reading in literature. Finally, special instruction in language and composition should be accompanied by concerted effort of teachers in all branches to cultivate in the student the habit of using good English in his recitations and various exercises, whether oral or written.

#### LITERATURE.

The second object is sought by means of the reading and study of a number of books, from which may be framed a progressive course in literature. The student should be trained in reading aloud and be encouraged to commit to memory notable passages both in verse and in prose. As an aid to literary appreciation, he is further advised to acquaint himself with the most important facts in the lives of the authors whose works he reads and with their place in literary history. He should read the books carefully, but his attention should not be so fixed upon details that he fails to appreciate the main purpose and charm of what he reads.

A few of these books should be read with special care, greater stress being laid upon form and style, the exact meaning of words and phrases, and the understanding of allusions.

#### EXAMINATION.

Candidates will have the option of taking either of two examinations; (1) a "Comprehensive" examination; (2) a "Restricted" examination, based in part on a prescribed list of books.

However accurate in subject-matter, no paper will be considered satisfactory if seriously defective in punctuation, spelling, or other essentials of good usage.

Each examination will be divided into two parts, one of which will be on grammar and composition, and the other on literature.

## GRAMMAR AND COMPOSITION.

## COMPREHENSIVE AND RESTRICTED EXAMINATIONS.

In grammar and composition, the candidate may be asked specific questions upon the practical essentials of these studies, such as the relation of the various parts of a sentence to one another, and those requirements of good usage which one should know in distinction from current errors. The main test in composition will consist of one or more essays, developing a theme through several paragraphs; the subjects will be drawn from the books read, from the candidate's other studies, and from his personal knowledge and experience quite apart from reading. For this purpose the examiner will provide several subjects, perhaps eight or ten, from which the candidate may make his own selections. He will not be expected to write more than four hundred words an hour.

## LITERATURE.

## COMPREHENSIVE EXAMINATION.

The purpose of this examination is to enable the candidate to show that he has read, understood, and appreciated a sufficient amount of English literature. The paper will include some questions that cannot be answered except by candidates who are able to apply what they have learned to passages of literature which they have not read before. Suggestions for books to be read in preparation for this examination will be found in a list which may be obtained from the Dean.

## RESTRICTED EXAMINATION.

This examination will include:

A. Questions designed to test such knowledge and appreciation of literature as may be gained by an intelligent reading of the books given in list A below.

B. A test on the books in list B below. This will consist of questions upon their content, form, and structure, and upon the meaning of such words, phrases, and allusions as may be necessary to an understanding of the works and an appreciation of their salient qualities of style. General questions may also be asked concerning the lives of the authors, their other works, and the periods of literary history to which they belong.

When parts A and B of the restricted examination are taken at different times, each will include a test in grammar and composition.

#### RESTRICTED LIST.

##### A. BOOKS FOR READING.

The books provided for reading are arranged in the following groups, from each of which at least two selections are to be made, except that for any book in Group I. a book from any other may be substituted.

GROUP I. CLASSICS IN TRANSLATION.—The Old Testament, —at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther; the Odyssey, with the omission, if desired, of Books I., II., III., IV., V., XV., XVI.; the Aeneid. The Odyssey and the Aeneid should be read in English translations of recognized literary excellence.

GROUP II. DRAMA.—Shakespeare: Merchant of Venice, As You Like It, Julius Caesar.

GROUP III. PROSE FICTION. — Dickens: A Tale of Two Cities; George Eliot: Silas Marner; Scott: Quentin Durward; Hawthorne: The House of the Seven Gables.

GROUP IV. ESSAYS, BIOGRAPHY, ETC.—Addison and Steele: The Sir Roger de Coverley Papers; Irving: The Sketch Book (selections covering about 175 pages); Macaulay: Lord Clive; Parkman: The Oregon Trail.

GROUP V. POETRY.—Coleridge: The Ancient Mariner; Scott: The Lady of the Lake; Tennyson: The Coming of Arthur, Gareth and Lynette, Lancelot and Elaine, and The Passing of Arthur; Browning: Cavalier Tunes, The Lost Leader, How They Brought the Good News from Ghent to Aix, Home Thoughts from Abroad, Home Thoughts from the Sea, Incident of the French Camp, Hervé Riel, Pheidippides, My Last Duchess, Up at a Villa—Down in the City, The Italian in England, The Patriot, The Pied Piper, De Gustibus, Instans Tyrannus; Arnold: Sohrab and Rustum.

## B. BOOKS FOR STUDY.

The books provided for study are arranged in four groups, from each of which one selection is to be made.

GROUP I. DRAMA.—Shakespeare: *Macbeth*, *Hamlet*.

GROUP II. POETRY. — Milton: *L'Allegro*, *Il Penseroso*, *Comus*; Book IV. of Palgrave's *Golden Treasury* (First Series), with special attention to Wordsworth, Keats, and Shelley.

GROUP III. ORATORY.—Burke: *Speech on Conciliation with America*; Washington's *Farewell Address*, Webster's *First Bunker Hill Oration*, and Lincoln's *Gettysburg Address*.

GROUP IV. ESSAYS.—Carlyle: *Essay on Burns*, with a brief selection from Burns's *Poems*; Macaulay: *Life of Johnson*.

## LATIN.

## I. AMOUNT AND RANGE OF READING REQUIRED.

1. The Latin reading required of candidates for admission to the B. A. course, without regard to the prescription of particular authors and works, is not less *in amount* than Caesar, *Gallie War*, I.—IV.; Cicero, the orations against Catiline, for the *Manilian Law*, and for *Archias*; Vergil, *Aeneid*, I.—VI.

2. The amount of reading specified above should be selected by the schools from the following authors and works: Caesar (*Gallie War* and *Civil War*) and *Nepos* (*Lives*); Cicero (orations, letters, and *De Senectute*) and Sallust (*Catiline* and *Jugurthine War*); Vergil (*Bucolics*, *Georgics*, and *Aeneid*) and Ovid (*Metamorphoses*, *Fasti*, and *Tristia*).

## II. SUBJECTS AND SCOPE OF THE EXAMINATIONS.

1. Translation at Sight. Candidates will be examined in translation at sight of both prose and verse. In vocabulary, constructions, and range of ideas, the passages set will be suited to the preparation secured by the reading indicated above.

2. Prescribed Reading. Candidates will be examined also upon the following prescribed reading: Cicero, the third oration against Catiline, and the orations for the *Manilian Law* and for *Archias*, and Vergil, *Aeneid*, III. and VI., with questions on subject-matter, literary and historical allusions, and prosody.

Every paper in which passages from the prescribed reading are set for translation will contain also one or more passages for translation at sight; and candidates must deal satisfactorily with both these parts of the paper, or they will not be given credit for either part.

The papers set by the College Entrance Examination Board, corresponding to the above requirements, are Latin 4 and 5.

3. Grammar and Composition. The examinations in grammar and composition will demand thorough knowledge of all regular inflections, all common irregular forms, and the ordinary syntax and vocabulary of the prose authors read in school, with ability to use this knowledge in writing simple Latin prose. The words, constructions, and range of ideas called for in the examinations in composition will be such as are common in the reading of the year, or years, covered by the particular examination.

The papers set by the College Entrance Examination Board, corresponding to the above requirements, are Latin 1 and 2.

In the case of candidates who desire credit for *two years'* work in Latin, the required reading is not less *in amount* than Caesar, Gallic War, I.-IV., and should be selected from the following: Caesar (Gallic War and Civil War) and Nepos (Lives). The test is on ability to read at sight, and no part of the reading is prescribed for examination. The corresponding paper of the College Entrance Examination Board is Latin 3. For *three years'* credit, the required reading is not less *in amount* than Caesar, Gallic War, I.-IV., and Cicero, the orations against Catiline, for the Manilian Law, and for Archias; this reading should be selected from Caesar (Gallic War and Civil War) and Nepos (Lives), Cicero (orations, letters, and De Senectute) and Sallust (Catiline and Jugurthine War). Cicero's orations for the Manilian Law and for Archias are prescribed for examination, in addition to the translation at sight. The corresponding paper of the College Entrance Examination Board is Latin 4. For this may be substituted, if desired, the examination in fourth-year Latin, Vergil and Translation of Poetry at sight (Latin 5).

Certificates for two years of Latin must state that the candidate has had systematic practice, and has exhibited satisfactory proficiency, in reading at sight Latin of the average difficulty

of Caesar; certificates for three years must vouch for similar practice and proficiency in reading at sight Latin of the average difficulty of either Cicero's orations or Vergil's Aeneid; and certificates for four years must vouch for such practice and proficiency in reading at sight Latin of the average difficulty of both Cicero's orations and Vergil's Aeneid.

#### GREEK.

1. Greek grammar, including prosody. The following text-books are recommended: Hadley-Allen's, Goodwin's, or Babbitt's.

2. Xenophon,—Anabasis, books I.—IV.

3. Homer,—Iliad, books I.—III.

4. Translation at sight of one or more passages from Xenophon.

5. Translation into Greek of easy narrative passages based on the required books of the Anabasis.

To meet the full requirement in Greek, candidates must pass the following examinations of the College Entrance Examination Board: Greek *a i*, *a ii*, *b*, *c*, *g*.

#### GERMAN.

ELEMENTARY (counting as two units).—Such a knowledge of the language is required as may be obtained by the reading of at least 300 pages, part of which should be read at sight. It is recommended that there be sufficient aural and oral practice to enable the student to write simple German prose from dictation and to read the language aloud with a correct and intelligible pronunciation. The ability to answer simple questions in German is also highly important. The examination consists of the translation at sight into English of easy passages of German, elementary grammatical questions, and the translation of simple English sentences into German. To meet this requirement two years' work will generally be necessary.

INTERMEDIATE (counting as one unit).—The requirement includes the reading of at least 400 additional pages of German (not more than half of which should be fiction), and regular practice in writing German. Further practice in speaking German is recommended, sufficient to enable the



student to understand simple spoken German, and to express simple ideas in the language. At least one additional year of study will be necessary to meet this requirement.

### FRENCH.

**ELEMENTARY** (counting as two units).—Such a knowledge of the language is required as may be obtained by the reading of at least 400 pages, part of which should be read at sight. The ability to write simple French prose from dictation, to read aloud with a correct pronunciation, and to answer simple questions in French, is important. The examination consists of the translation at sight into English of easy passages of French, elementary grammatical questions, and the translation of simple English sentences into French. To meet this requirement two years' work will generally be necessary.

**INTERMEDIATE** (counting as one unit).—The requirement includes the reading of not less than 600 additional pages of French (including at least two works of a dramatic character), and regular practice in writing and speaking French. At least one additional year of study will be necessary to meet this requirement.

### SPANISH.

**ELEMENTARY** (counting as two units).—Such a knowledge of the language is required as may be obtained by the reading of at least 300 pages, part of which should be read at sight. The ability to write simple Spanish prose from dictation, to read aloud with correct pronunciation, and to answer simple questions in Spanish, is important. The examination consists of the translation at sight into English of easy passages from Spanish, elementary grammatical questions, and the translation of simple English sentences into Spanish. To meet this requirement two years' work will generally be necessary.

**INTERMEDIATE** (counting as one unit).—The requirement includes the reading of not less than 300 additional pages of Spanish and the ability to translate into Spanish a connected passage of English based on the text read, as well as to answer questions involving a more thorough knowledge of syntax than is expected in the elementary course. At least one additional year of study will be necessary to meet this requirement.

## HISTORY.

1. Ancient History to the death of Charlemagne (814).
2. Mediaeval and Modern European History from the death of Charlemagne (814) to the present time.
3. Modern History from about 1660 to the present time.
4. English History.
5. American History.
6. American History and Civil Government.

Courses 1, 2, 4, and 6 are outlined in *The Study of History in Schools: Report to the American Historical Association by the Committee of Seven* (1899), and with more detail in *A History Syllabus for Secondary Schools . . . by a Special Committee of the New England History Teachers' Association* (1904), and in *Syllabus for Secondary Schools, 1910*, published by the University of the State of New York. These six courses are identical with those scheduled for examination by the College Entrance Examination Board.

In each of the above courses the following requirements must be met:

1. One year of historical work, wherein the study is given five times per week, or two years of historical work, wherein the study is given three times per week.
2. Such general knowledge of the whole course as may be acquired from the study of an accurate text-book, amounting to not less than 500 pages.
3. A fuller knowledge derived from suitable collateral reading, in books of a less elementary nature, amounting to at least 500 pages.
4. Comparisons between historical characters, periods, and events, and in general the power to combine in orderly fashion the results of reading, and to exercise judgment as well as memory.
5. Geographical knowledge, tested by the location of places, movements, and territorial changes on an outline map, by physical features wherever possible, as well as by political features.

Schools having the certificate privilege must certify only those courses in history actually pursued in the high school,

and must omit any courses taken in the grammar school, or merely passed on examination, or not complying with the above requirements.\*

The Regents' diplomas and supplementary pass cards of the University of the State of New York for the *five*-hour examinations will be received as covering the first, fourth, and sixth of the above groups, and for the three hour examinations in *both* Modern History I. and Modern History II. as covering the second of the above groups.† Similar credentials covering Courses B (Modern History) and C (American History) outlined in the Regents' *Syllabus* of 1920 will be received as equivalent to the third and sixth of the above groups.

Candidates for the B.A. degree are advised to present Ancient History, the first of the above groups, and may, in addition, present not to exceed three of the other groups. Candidates for the B. S. or Ph. B. degree may present not to exceed four of the above groups.

## MATHEMATICS.

### I. ELEMENTARY ALGEBRA.

(a) Algebra to Quadratics. The four fundamental operations for rational algebraic expressions. Factoring, determination of highest common factor and lowest common multiple by factoring. Fractions, including complex fractions, and ratio and proportion. Linear equations, both numerical and literal, containing one or more unknown quantities. Problems

\* In case of schools entitled to the certificate privilege, where any of the courses in history are such that they do not meet the above requirements, the teacher should give the student a detailed statement of the courses taken and of his grades, which statement will be considered in connection with such examination as may be deemed necessary to determine the amount of credit to be allowed. In no case will account be taken of a course in Greek History which does not extend at least to the death of Alexander (B. C. 323), or of a course in Roman History which does not extend at least to the death of Marcus Aurelius (A. D. 180). No account will be taken of any course of less than five periods for a half-year, or three periods for a year.

† No credit will be allowed for the *three*-hour examination in Ancient History. Temporarily, the three-hour examinations in the other subjects will be credited for a half-unit. No credit is given for Elementary United States History and Civics, or Civics, or Economics, or for Course A (Ancient and Mediaeval History) as outlined in the 1920 *Syllabus*.

depending on linear equations. Radicals, including the extraction of the square root of polynomials and of numbers. Exponents, including the fractional and negative.

(b) Quadratics and beyond. Quadratic equations, both numerical and literal. Simple cases of equations with one or more unknown quantities, that can be solved by the methods of linear or quadratic equations. Problems depending on quadratic equations. The binomial theorem for positive integral exponents. The formulas for the  $n$ th term and the sum of the terms of arithmetical and geometric progressions, with applications.

## 2. PLANE GEOMETRY.

The usual theorems and constructions of good text-books, including the general properties of plane rectilinear figures; the circle and the measurement of angles; similar polygons; areas; regular polygons, and the measurement of the circle. The solution of numerous original exercises, including loci problems. Applications to the mensuration of lines and plane surfaces.

## 3. SOLID GEOMETRY.

The usual theorems and constructions of good text-books, including the relations of planes and lines in space; the properties and measurement of prisms, pyramids, cylinders, and cones; the sphere and the spherical triangle. The solution of numerous original exercises, including loci problems. Applications to the mensuration of surfaces and solids.

## 4. ADVANCED ALGEBRA.

Permutations and combinations, limited to simple cases. Complex numbers, with graphical representation of sums and differences. Determinants, chiefly of the second, third, and fourth orders, including the use of minors and the solution of linear equations. Numerical equations of higher degree, and so much of the theory of equations, with graphical methods, as is necessary for their treatment, including Descartes' rule of signs and Horner's method, but not Sturm's functions or multiple roots.

## 5. PLANE TRIGONOMETRY.

Definitions and relations of the six trigonometric functions as ratios; circular measurement of angles. Proofs of principal

formulas, in particular for the sine, cosine, and tangent of the sum and the difference of two angles, of the double angle and the half angle, the product expressions for the sum or the difference of two sines or of two cosines, etc.; the transformation of trigonometric expressions by means of these formulas. Solution of trigonometric equations of a simple character. Theory and use of logarithms (without the introduction of work involving infinite series). The solution of right and oblique triangles, and practical applications.

### PHYSICS.

The course of instruction should include:

(1) The careful study of a standard text-book, for the purpose of obtaining a connected and comprehensive view of the subject.

(2) Lecture table demonstrations, mainly qualitative, illustrating important facts and phenomena and their practical applications.

(3) Individual laboratory work, consisting of experiments requiring at least the time of thirty double periods. The experiments performed by each student should number at least 30. They should be chiefly quantitative, and so chosen as to give a wide range of observation and practice. They should be neatly recorded in a suitable note-book, *indexed, and certified by the instructor*. This book should be deposited with the examiner when the candidate presents himself for examination. Students entering on certificate are not required to show their note-books.

The above requirements are intended to be identical with those of the College Entrance Examination Board, as set forth in their Document No. 101. Teachers of physics are advised to consult this document for a valuable syllabus of topics and list of experiments.\*

### CHEMISTRY.

The requirements for admission in chemistry may be summarized as follows:

(1) Individual laboratory work, comprising at least forty experiments. The candidate who is examined in chemistry for admission to college must present his original note-book

\* See note at the bottom of next page.

containing a record in his own words of the experiments, and of his observations and conclusions in connection with them. The note-book should include *an index of the experiments performed, and must be certified by the instructor*. It should be deposited with the examiner when the candidate presents himself for examination. Students entering on certificate are not required to show their note-books.

(2) Instruction by lecture table demonstrations, covering the more important facts and principles of elementary chemistry.

(3) The thorough study of at least one standard text-book, for the acquisition of a comprehensive and connected view of the subject.

These requirements are intended to be identical with those of the College Entrance Examination Board. Teachers who desire to meet them should consult Document No. 101 of the Board.\*

#### PHYSICAL GEOGRAPHY.

In physical geography, such a knowledge of the subject is required as may be gained from the study of the text-book of any one of the following authors: Salisbury, Tarr, Davis, Gilbert and Brigham, Hinman, Dryer, Hopkins, Geikie. Certificates in physical geography will not be accepted without examination, with credit of one half-unit, unless one of the text-books above mentioned has been used, and the time devoted to the study has been at least the equivalent of four exercises a week for a half-year. Certificates will not be accepted without examination, with credit of one unit, unless one of the text-books above mentioned has been used, supplemented by laboratory work, and the time devoted to the study has been at least the equivalent of four exercises a week for a year. The laboratory note-book, properly certified by the instructor, must be deposited with the examiner when the candidate presents himself for examination. Students entering on certificate are not required to show their note-books.

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\* Address College Entrance Examination Board, 431 W. 117th St., New York, N. Y. The price of the document is ten cents.

### BIOLOGY.

Credit will be given in biology for either one-half unit or for one unit, according to the amount of time the student has given to the study. To obtain a credit of one unit, the student must have given to the study the equivalent of four or five hours a week for a year. The candidate must present his original note-book containing a record of his drawings and observations on the work of the laboratory. The note-book must be certified by the instructor. Credit will be allowed for work in either botany or zoölogy, any of the modern text-books in these subjects being recognized as satisfactory. If the student desires credit for a unit in botany he is expected to have a knowledge of both structural and morphological botany, and to have a practical familiarity with the method of analyzing flowers and using analytical keys. In zoölogy a more thorough comprehension of the structure and classification of animals is expected if a unit credit is given than if only a half unit. In case a student has had an extended course in physiology, this may be accepted in place of botany.

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### SPECIAL COURSES.

Special students, not candidates for a degree, may be admitted, upon passing such examinations as the Faculty shall in each case prescribe. (See also page 37.)

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### GENERAL REGULATIONS CONCERNING ADMISSION.

**ADVANCED STANDING.**—All candidates for advanced standing must satisfy the Faculty of their proficiency in the preparatory studies, the required studies already pursued by the classes they propose to enter, and the proper quota of elective studies, or studies recognized as equivalents therefor. A certificate of standing in another college is not accepted as evidence of such proficiency, without such further inquiry or examination as may be necessary in the judgment of the respective instructors.

No student is admitted from another college unless his standing in scholarship is at least as high as that required in Wesleyan University for promotion from class to class.

**PRELIMINARY EXAMINATIONS.**—Preliminary examinations in any of the requirements for admission may be taken a year or more before entering college, and a candidate will receive credit for any subjects thus passed in advance.

**DATE AND PLACE OF EXAMINATIONS.**—Examinations for admission are held twice each year, in June and in September. The June examinations are those of the College Entrance Examination Board, and are conducted under the following regulations.

In June, 1922, there will be separate blank forms for the "application for examination" and "certificate of recommendation." The former should be addressed to the College Entrance Examination Board, 431 West 117 Street, New York, N. Y., the latter to the Chairman of the Committee on Admission of the university, college, or scientific school that the candidate wishes to enter. Both forms may be obtained from the Secretary of the College Entrance Examination Board upon request by mail.

Provided that the application reach the College Entrance Examination Board not later than the date specified below, the examination fee will be \$9.00 if the candidate is to be examined in the United States or Canada, \$20.00 if the candidate is to be examined outside of the United States or Canada. The fee should be transmitted by postal order, express order, or draft on New York, should accompany the application, and should be payable to the College Entrance Examination Board.

Applications and fees of candidates who wish to be examined outside of the United States or Canada must reach the Secretary of the Board at least six weeks in advance of the examinations, that is, on or before May 8, 1922.

Applications and fees of candidates who wish to be examined at points in the United States west of the Mississippi River or in Canada must be received at least four weeks in advance of the examinations, that is, on or before May 22, 1922.



Applications and fees of candidates who wish to be examined at points in the United States east of or on the Mississippi River must be received at least three weeks in advance of the examinations, that is, on or before May 29, 1922.

When the candidate has failed to obtain the required blank form of application for examination, the usual examination fee will be accepted if the fee arrive not later than the specified date accompanied by a memorandum containing the name and address of the candidate, the examination center at which he wishes to present himself, and a list of all subjects in which he may have occasion to take the Board's examinations.

Applications received later than the dates named will be accepted only upon payment of an additional fee of nine dollars.

A list of the places at which the examinations are to be held by the Board in June, 1922, will be published about March 1. Requests that the examinations be held at particular points, to receive proper consideration, should be transmitted to the Secretary of the Board not later than February 1.

The examinations in September will be conducted by the college, and no fees will be charged. They will be held only in Middletown. The dates of the examinations in 1922 will be September 15, 16, and 18.

**ADMISSION BY CERTIFICATE.**—Certificates covering the foregoing requirements for admission to college are received from certain schools of good standing, which have been approved by the Faculty. A certificate will not be received unless it covers decidedly the major part of the requirements for admission.

No certificate will be received from any school in New England which has not been approved by the New England College Entrance Certificate Board, of which this college is a member. The Secretary of the Board is Dean Frank W. Nicolson, of Wesleyan University, Middletown, Conn., to whom applications from New England schools for the certificate privilege should be addressed. Such applications must reach the Secretary not later than April first, if approval is desired for the next academic year.

The academic diploma in classical or technical subjects, issued by the Regents of the University of the State of New

York, and their college entrance diploma in arts, science, or engineering, together with pass cards or advanced diplomas supplementary to the above will be received in lieu of examination in such of the subjects required for admission as they cover. Regents' certificates, and pass cards without diplomas, will not be accepted.

Certificates from preparatory schools and Regents' diplomas are never accepted in lieu of examination for advanced standing.

Students entering by certificate are considered as on trial until the completion of the mid-year examinations. A student admitted to college on certificate, who is dismissed during his Freshman year on account of inability to keep up with his class, must take examinations in all subjects required for admission, in case he desires to return to college.

Detailed information concerning admission by certificate may be obtained on application to the Dean.

ADMISSION OF WOMEN.—Women were first admitted to the University in 1872. The Trustees voted, February 26, 1909, that no women should be admitted in any class later than that entering in 1909. Women may be admitted, however, as graduate students.

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Satisfactory evidence of good moral character will be required in the case of all candidates for admission; and certificates of honorable dismissal will be required from those who have been members of other colleges.

## COURSES OF INSTRUCTION.

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For regulations concerning selection of studies, see page 116.

Bracketed courses are not given this year, but will, in most cases, be given next year.

The Roman numerals in parentheses following each course indicate the examination group to which it is assigned. For table of groups, see pages 114, 115.

The place of meeting of each course is indicated by means of the following abbreviations: F. H.=Fisk Hall; J. H.=Judd Hall; O. H.=Observatory Hall; S. C.=South College; S. L.=Scott Laboratory of Physics; CHEM. LAB., BIOL. LAB.=Chemical, Biological Laboratory.

An asterisk prefixed to the number of a course indicates that it can be elected only with the previous approval of the instructor; such approval must be *in writing* and must be handed in by the student *along with his list of electives*.

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### DIVISION I.—LANGUAGES.

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#### LATIN.

PROFESSORS HARRINGTON, NICOLSON, AND HEWITT.

Of the following courses in Latin, Course 1 is given every year, the remaining courses usually in alternate years only, the bracketed courses being omitted in 1921-22. Either Course 1 in Latin or Course 1 in Greek is required of all candidates for the degree of B. A. Courses 2-6 are elective for those who have taken Course 1. But Course 6 may by special permission be elected by those who are taking Course 1. Courses 7-14 are intended primarily for those who have taken at least Course 1 and two of Courses 2-5. But Courses 8 and 13 may by special permission of the instructor be elected by those who have taken only Course 1, and students of marked ability in the reading of Latin, who are taking one of Courses 2-5, may be admitted to certain of the other courses at the same time by special permission of the instructor, to whom application should in each case be made. Courses 12 and 15 do not presuppose a knowledge of Latin; Course 12 is elective for Juniors, and Course 15 for Sophomores.

1. SELECTIONS FROM ROMAN HISTORIANS (*first half-year*). HORACE,—Selections from the Odes and Epodes (*second half-year*). SECTION 1, *Mon., Wed., Fri., at 11*; SECTION 2, *Tu., Th., Sat., at 11*. 31 F. H. PROFESSORS NICOLSON and HEWITT. (X)

2. CICERO,—Selected letters, to give a more intimate acquaintance with the history of Rome during the last two decades of the republic, and to compare colloquial with formal Latin. *Tu., Th., Sat., at 10 (first half-year)*. 31 F. H. PROFESSOR HARRINGTON. (IX)

3. ROMAN COMEDY.—Selected plays of Plautus and Terence. *Tu., Th., Sat., at 10 (second half-year)*. 31 F. H. PROFESSOR HEWITT. (IX)

[4. HORACE,—Satires and Epistles, to illustrate the social and literary standards of Rome at the beginning of the Empire. *Three times a week (first half-year)*. PROFESSOR HARRINGTON.]

[5. PLINY THE YOUNGER,—Selected letters, to illustrate especially the state of Roman society at the close of the first century after Christ. *Three times a week (second half-year)*. PROFESSOR HEWITT.]

[6. LATIN PROSE COMPOSITION. In this course the elementary principles of Latin style are studied and considerable amounts of English prose (dealing with subjects both ancient and modern) are translated into Latin. *Once a week*. PROFESSOR NICOLSON.]

[7. RAPID READING. The aim in this course is to read large amounts of comparatively easy Latin, with a view to acquiring facility in the use of the language. The selections for the first half-year are from poetry (Vergil, Plautus, Terence); in the second half-year from prose (Caesar, Suetonius, Gellius). A considerable part of the reading is done outside of class, and tested by written recitations. *Twice a week*. PROFESSOR NICOLSON.]

[8. ROMAN LITERATURE. A historical and critical survey of Roman literature from the third century B. C. to the fifth

century A. D., given by means of lectures, a text-book dealing with the general subject, illustrative class-room readings in Latin and in English translations, and collateral reading. This course is designed primarily for students who desire a wider general acquaintance with the literature of the Romans and its relation to other literatures, without special emphasis upon its distinctly philological features. *Three times a week.* PROFESSOR HARRINGTON.]

9. ROMAN ELEGIAC POETRY. The origin and development of the elegiac form. Selections from Catullus, Tibullus, Propertius, and Ovid. Practice in original research. Seminar methods are employed. *Tu., Th., Sat., at 8 (first half-year; at 10, second half-year).* 32 F. H. PROFESSOR HARRINGTON. (VII)

10. ROMAN SATIRE. From its beginnings through the Golden Age. Selections from Ennius, Lucilius, Varro, Horace, Persius, Juvenal, Petronius, Martial, and Apuleius; the Apococytosis of Seneca; lectures on the earliest forms of the novel. *Mon., Fri., at 11.* PROFESSOR NICOLSON. (IV)

11. ROMAN PHILOSOPHY. Lucretius (selections); Cicero (selections from the *Academica*, *De Officiis*, *Tusculanae Disputationes*, *De Finibus*, *De Divinatione*, *De Natura Deorum*); Seneca (selected essays and epistles); lectures on the development of Roman philosophy. *Mon., Wed., Fri., at 8.* 30 F. H. PROFESSOR HARRINGTON. (I)

12. ROMAN CIVILIZATION. Lectures and assigned reading on the public and private life of the Romans, with special emphasis upon the influence of Roman civilization on modern life, and with various parallels between the political and social tendencies of Rome and those of the present day. *Tu., Th., Sat., at 8 (second half-year).* 31 F. H. PROFESSOR HARRINGTON. (VII)

Course 12 is elective for Juniors. Knowledge of Latin is not required.

[13. HISTORICAL LATIN GRAMMAR. Lectures on the historical development of Latin grammar, as regards both forms and syntax, with illustrative readings in inscriptions and in early Roman literature. *Three times a week (first half-year).* PROFESSOR HARRINGTON.]

[14. MEDIAEVAL LATIN LITERATURE. Lectures introductory to the literature written in the universal language of the ecclesiastical and learned European world from the fifth century to the seventeenth century. Illustrative readings from some of the most interesting types of prose and poetry, including history, satirical poetry, the epic, the lyric, the drama, the epistle, the novel. *Three times a week (second half-year)*. PROFESSOR HARRINGTON.]

15. ROMAN ART. Illustrated lectures, with assigned collateral reading, involving the preparation of notebooks, and occasional written tests. The course is designed to set forth the development and achievements of the Romans in some of the most important fields of art, including architecture, relief (historical, mythical, and ideal), portrait sculpture, painting, ornamentation, mosaic, plate, gems, and cameos. *Mon., at 9.* 31 F. H. PROFESSOR HARRINGTON. (II)

Course 15 is elective for Sophomores. Knowledge of Latin is not required.

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## GREEK.

PROFESSORS HEIDEL AND HEWITT.

A BEGINNERS' COURSE. Grammar and exercises; XENOPHON,—Anabasis. *Mon., Wed., Fri., at 1; Tu., at 2.* 37 F. H. PROFESSOR HEWITT. (V)

Credit for Course A will be given only to students who attain in it a grade of C— or above and subsequently pass Course B and Course I in Greek.

B HOMER,—Odyssey. *Tu., Th., at 8 (first half-year).* 37 F. H. PROFESSOR HEIDEL. (VII)

Course B is intended for students who have taken Course A or its equivalent, but have read little or no Homer.

I. PLATO,—Euthyphro, Apology, and Crito; XENOPHON,—Selections from the Memorabilia; LYSIAS,—Selected Orations. *Mon., Wed., Fri., at 8.* 37 F. H. PROFESSOR HEIDEL. (I)

Course I is intended for students who have completed the entrance requirements in Greek, or Courses A and B. It may, however, be taken by those who have completed only Course

A, or its equivalent, provided that they have attained a grade of C— or above, and are taking Course B.

Course 1 in Greek, or Course 1 in Latin, is required of candidates for the B. A. degree.

2. EURIPIDES,—*Alcestis*; ARISTOPHANES,—*Clouds*; LUCIAN,—*Selections*. *Mon., Wed., at 8.* 12 S. C. PROFESSOR HEWITT. (I)

Course 2 is elective for those who have taken Course 1.

3. GREEK PROSE COMPOSITION. *Twice a week (first half-year), the hours to be determined.* PROFESSOR HEIDEL.

Course 3 is elective for those who take, or have taken, Course 2.

4. HISTORY OF GREEK LITERATURE. Recitations, lectures, and collateral reading are supplemented by a more intensive study of selected portions of the literature. Especial stress is laid upon the relation between the Greek and English literatures, with respect both to literary form and to subject matter. Knowledge of Greek is not required. *Twice a week.* PROFESSOR HEWITT.

Course 4 is elective for Juniors, or for Sophomores who are taking Course 2.

Courses 3 and 4 are given in alternate years, Course 3 being omitted in 1921-22.

5. PLATO,—*Gorgias*; DEMOSTHENES,—*The Oration on the Crown*. Collateral study of Greek rhetoric and oratory. *Mon., Wed., Fri., at 9 (first half-year).* 32 F. H. PROFESSOR HEIDEL. (II)

6. THE GREEK LYRIC POETS,—including selections from Pindar and Bacchylides. *Mon., Wed., Fri., at 9 (second half-year).* 32 F. H. PROFESSOR HEIDEL. (II)

Courses 5 and 6 are elective for those who have taken Course 2.

[7. AESCHYLUS,—*Prometheus Bound*. SOPHOCLES,—*Oedipus the King*, and *Antigone*. Lectures and collateral reading on the Greek theatre (*first half-year*). EURIPIDES,—*Iphigenia*

among the Taurians, and Cyclops. ARISTOPHANES,—*Frogs*. Collateral reading on the Greek drama (*second half-year*). *Three times a week*. PROFESSOR HEIDEL.]

Course 7 is elective for those who have taken Course 2. It is omitted in 1921-22.

[8. NEW TESTAMENT IN GREEK. *Twice a week (first half-year)*. PROFESSOR HEWITT.]

Course 8 is elective for those who take, or have taken, Course 2. It is omitted in 1921-22.

[9. GREEK CIVILIZATION. Lectures and collateral reading on the political institutions, the art, religion, and scientific thought of ancient Greece in relation to modern civilization. Knowledge of Greek is not required. *Three times a week*. PROFESSOR HEIDEL.]

Course 9 is elective for Juniors. It is omitted in 1921-22.

10. PLATO,—*Republic*. *Mon., Wed., Fri., at 11 (first half-year)*. 32 F. H. PROFESSOR HEIDEL. (IV)

11. GREEK LITERARY CRITICISM. Aristotle's *Poetics*, the treatise *On the Sublime*, and selections from Dionysius of Halicarnassus. *Mon., Wed., Fri., at 11 (second half-year)*. 32 F. H. PROFESSOR HEIDEL. (IV)

Courses 10 and 11 are elective for those who have taken Courses 5 and 6, or Course 7.

## HEBREW.†

ELEMENTARY COURSE. Davidson's *Grammar*. The verbal and nominal forms and the elements of syntax are thoroughly mastered. Careful attention is given to the acquisition of a practical, working vocabulary. Short sentences in Hebrew are read with every lesson, accompanied by exercises in Hebrew composition (*first half-year*). Kittel's *Hebrew Bible*. The Brown, Driver, and Briggs *Hebrew Lexicon*. Selections from *Genesis*. The Book of *Ruth*. Sight reading (*second half-year*). *Four times a week, the hours to be determined*. Berkeley Divinity School.

† Students may receive credit for work in this department pursued at the Berkeley Divinity School.



## GERMAN.

PROFESSOR CURTS; DR. BAERG; MR. SHEARS.

1. ELEMENTARY. An introduction to grammar and composition. Reading of easy narrative prose, with practice in sight translation. SECTION 1, *Mon., Wed., Fri., at 8*; SECTION 2, *Mon., Wed., Fri., at 1*; SECTION 3, *Tu., Th., Sat., at 9*; SECTION 4, *Tu., Th., Sat., at 11*. 11 F. H. DR. BAERG and MR. SHEARS. (XV)

Candidates for the degrees of Ph. B. and B. S. are required to complete the equivalent of German 1 and 2, as well as French 1 and 2. Such of these courses as they have not taken and passed before entering college, they must take as soon as practicable after entering.

2. INTERMEDIATE. Reading of narrative and dramatic prose and poetry, with a review of elementary grammar, accompanied by prose composition. SECTION 1, *Mon., Wed., Fri., at 8*. 31 F. H. SECTION 2, *Mon., Wed., Fri., at 1*. 39 F. H. SECTION 3, *Tu., Th., Sat., at 8*. 14 F. H. PROFESSOR CURTS, DR. BAERG, and MR. SHEARS. (XV)

Course 2 is elective for those who have taken Course 1, or who have passed elementary German for admission.

3. ADVANCED. Rapid reading of historical and literary works bearing on some of the more generally interesting periods of German history. The historical or literary significance of the subject matter is discussed. Two or three texts are assigned for outside reading and made the basis of written reports. There is a brief review of German grammar and work in prose composition. As emphasis is laid on a practical training in the language, German is used in the class as far as is convenient. *Mon., Wed., Fri., at 9*. 36 F. H. PROFESSOR CURTS. (II)

Course 3 is elective for those who have taken Course 2, or who have passed intermediate German for admission.

4. SCIENTIFIC. Reading from German scientific literature. In so far as possible, such selections are made for class reading

as will emphasize the unity and correlation of the natural sciences and at the same time give the student some of the latest phases of German scientific thought and method. The class work is supplemented by parallel assignments from standard articles in that particular science in which the student is specializing. *Mon., Wed., Fri., at 11.* 37 F. H. PROFESSOR CURTS. (IV)

Course 4 is elective for those who have taken Course 2, or who have passed intermediate German for admission. An elementary knowledge of physics and chemistry is essential.

5. GERMAN LIFE AND INSTITUTIONS. This course aims to make the student familiar with German civilization and to give him fluency in the correct use of the language. The materials for reading and discussion deal with the Germany of to-day, its political organization, institutions, and customs, with some reference to their development. All class exercises, lectures, and themes are in German. *Tu., Th., Sat., at 9.* 39 F. H. DR. BAERG. (VIII)

Course 5 is elective for those who have taken Course 3 or its equivalent.

6. LITERATURE OF THE CLASSICAL PERIOD. A study of the contribution of Lessing, Goethe, and other writers of the classical period in Germany in the second half of the eighteenth century to modern thought and to the development of modern literature, with class assignments, parallel readings, and lectures. The collateral reading is made the subject of written reports. *Tu., Th., Sat., at 8.* 36 F. H. PROFESSOR CURTS. (VII)

Course 6 is elective for those who have taken Course 3 or its equivalent.

[7. LITERATURE OF THE EARLIER NINETEENTH CENTURY. Rapid reading of a considerable number of the more important works of German literature of the years 1790 to about 1840. Some of the works are read in class and some made the subject of written reports. *Three times a week.* MR. SHEARS.]

8. LITERATURE OF THE LATER NINETEENTH CENTURY. This course covers the period from about 1840 to the present day. It is conducted according to the same general methods as Course 7. *Mon., Wed., Fri., at 11.* 36 F. H. MR. SHEARS.  
(IV)

Courses 7 and 8 are given in alternate years, and are elective for those who have taken Course 3 or its equivalent. Course 7 is omitted in 1921-22.

9. HISTORY OF GERMAN LITERATURE. A course of lectures covering the history of the literature in outline from the earliest period to the time of Goethe, with parallel readings. Written reports of outside reading, in the form of reading notes, are required. *Tu., Th., at 10 (second half-year).* 36 F. H. PROFESSOR CURTS.  
(IX)

[10. ADVANCED GRAMMAR AND COMPOSITION. An intensive review of the elementary phonology and forms of the language, followed by a study of the syntax and an introduction to the historical grammar of German. Regular exercises in writing German. In part the class exercises are conducted in German, and there is constant practice in speaking the language. The course is designed especially for those preparing to teach German. *Twice a week.* PROFESSOR CURTS.]

Courses 9 and 10 are given in alternate years and are elective for those who have taken Course 3, or its equivalent. Course 10 is omitted in 1921-22.

[11. MIDDLE HIGH GERMAN. The purpose of the course is to enable the student to obtain a good reading knowledge of the literary language of Germany about the year 1200. The basis of the work is the Nibelungenlied, of which considerable portions are translated into modern German. Some study is made of the Nibelungen "saga," both as a part of the regular assignments and by way of lectures by the instructor. Some of the lyrics of the period are also read. *Twice a week.* PROFESSOR CURTS.]

Course 11 is elective for those who have taken Course 3 or its equivalent. It is omitted in 1921-22.

## ROMANCE LANGUAGES.

PROFESSORS KUENS AND †MANN; ASSOCIATE PROFESSORS BUSSOM AND CLARK; MR. SMITH.

## FRENCH.

1. ELEMENTARY FRENCH. An introduction to French grammar and composition. Reading of simple narrative prose. Oral drill is carried on throughout the year and special attention is given to pronunciation. SECTION 1, *Tu., Th., Sat., at 8.* 12 F. H. SECTION 2, *Mon., Wed., Fri., at 9;* SECTION 3, *Mon., Wed., Fri., at 11.* 39 F. H. MR. SMITH. (XIII)

Candidates for the degrees of Ph. B. and B. S. must complete the equivalent of Courses 1 and 2 in French, as well as 1 and 2 in German. Such of these courses as they have not taken and passed before entering college, they must take as soon as practicable after entering.

2. INTERMEDIATE FRENCH. This course has for its main object careful drill in the use of the French language, together with the reading of a large amount of French. Special attention is given to the study of France as a country, its people, and its literature. Collateral reading is assigned to be prepared for examination. SECTION 1, *Tu., Th., Sat., at 8.* 11 F. H. SECTION 2, *Tu., Th., Sat., at 9.* 37 F. H. SECTION 3, *Tu., Th., Sat., at 10;* SECTION 4, *Mon., Wed., Fri., at 2.* 11 F. H. ASSOCIATE PROFESSORS BUSSOM and CLARK, and MR. SMITH. (XIII)

Course 2 is elective for those who have taken Course 1, or who have passed elementary French for admission.

3. FRENCH LANGUAGE. This course is designed primarily to develop fluency in the written and spoken language. Special stress is laid on the requirement of a correct pronunciation. Systematic study of vocabulary. Review of word order and the more difficult points of syntax. Regular exercises in writing French. Collateral reading is made the subject of oral and written reports. Lectures on French life and institutions. In great part the class exercises are conducted in

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† Absent on leave.

French. SECTION 1, *Mon., Wed., Fri., at 9.* 15 F. H. SECTION 2, *Tu., Th., Sat., at 10.* 28 F. H. ASSOCIATE PROFESSOR CLARK. (XIII)

Course 3 is elective for those who have taken Course 2, or who have passed intermediate French for admission.

\*4. FRENCH LITERATURE. A general course in the literature of modern France. Some of the masterpieces of the great writers are read and discussed in French, but not translated. Duval's *Histoire de la Littérature Française* is read and supplemented by informal lectures on the general state of literature in France in the seventeenth, eighteenth, and nineteenth centuries. Twice a week translation from English into French is made. In addition, each member of the class must make, twice during the year, a more extensive study of some one particular writer. *Mon., Wed., Fri., at 8.* 39 F. H. PROFESSOR KUHN. (I)

Course 4 is elective, with the permission of the instructor, for Sophomores who have taken Course 2 or Course 3.

5. FRENCH CLASSICISM. A study of the principal literary works of the seventeenth century classicism, and lectures on the social life of the period. Class-room exercises are conducted in French. *Tu., Th., at 9.* 11 F. H. ASSOCIATE PROFESSOR BUSSOM. (VIII)

Course 5 is elective for Sophomores who have taken Course 2 or Course 3.

6. POETRY AND DRAMA OF THE NINETEENTH CENTURY. Study of representative works of the principal poets and dramatists, beginning with the Romantic School. Class-room exercises are conducted in French. *Th., 2-4.* 39 F. H. ASSOCIATE PROFESSOR CLARK. (XII)

Course 6 is elective for Sophomores who have taken Course 2 or Course 3.

7. THE NINETEENTH CENTURY NOVEL AFTER THE ROMANTIC PERIOD. Reading and discussion of some of the principal works of representative French novelists after 1850. *Tu., 2-4.* 11 F. H. ASSOCIATE PROFESSOR BUSSOM. (XII)

Course 7 is elective for Sophomores who have taken Course 2 or Course 3.

8. OLD FRENCH. The work consists in the translation of Old French texts, and the study of Old French literature, with special reference to its influence on the literatures of the other nations of Western Europe. Lectures on the origin of the French language and collateral reading form part of the work. *Tu., Th., at 10 (first half-year)*. 39 F. H. PROFESSOR KUHN. (IX)

Course 8 is elective for those who have taken Course 4.

9. FRENCH SYNTAX AND PHONETICS. This course is especially designed to meet the needs of those who intend to teach French. It includes the study of grammar and composition, phonetics of French pronunciation, and other appropriate topics. The class exercises are partly conducted in French. *Tu., Th., at 10 (second half-year)*. 39 F. H. PROFESSOR KUHN. (IX)

Course 9 is elective for those who have taken Courses 1-4.

[10. OLD PROVENÇAL. This is intended as a companion course to 5 French, and is literary rather than linguistic in its aims. The work consists in the study of texts, lectures on the life and poetry of the troubadours and their influence on early European literature, collateral readings, and a brief consideration of Provençal philology. *Twice a week*. PROFESSOR MANN.]

Course 10 is elective for those who have taken either Course 4 in French, or Courses 1 and 2 in French, and Course 2 in Spanish. It is omitted in 1921-22.

### ITALIAN.

1. ELEMENTARY ITALIAN. Grammar, composition, and reading of Italian prose. In addition to the regular work by the class in translating modern prose, the instructor translates and interprets to the class the *Inferno* of Dante. As a preparation for this part of the work, the class is required to read Gardner's *Dante* (in Temple Primers). *Mon., Wed., Fri., at 10*. 39 F. H. PROFESSOR KUHN. (III)

Course 1 is elective for Sophomores who have taken 1 French.

[2. **ADVANCED ITALIAN.** In this course the *Purgatorio*, the *Paradiso*, and the *Vita Nuova* of Dante, and the *Rime* of Petrarch are read and translated. *Three times a week.* PROFESSOR KUHNS.]

Course 2 is elective for those who have taken Course 1. It is omitted in 1921-22.

3. **DANTE IN ENGLISH.** The text-books in this course are Cary's translation of the *Divine Comedy* and Gardner's *Dante* (in the *Temple Primers*). The instructor interprets the *Divine Comedy* in the light of the history, science, theology, and philosophy of the Middle Ages and shows its influence on modern thought, laying especial emphasis on the moral and religious teaching of the great Italian poet. *Tu., at 8.* 39 F. H. PROFESSOR KUHNS. (VII)

Course 3 is elective for Sophomores.

#### SPANISH.

1. **ELEMENTARY SPANISH.** Grammar, and reading of simple Spanish prose. *Mon., Wed., Fri., at 10.* 12 F. H. ASSOCIATE PROFESSOR BUSSOM. (III)

Course 1 is elective for Sophomores who have taken French 1.

2. **THE SPANISH NOVEL OF THE NINETEENTH CENTURY.** Reading of representative works of the period, and lectures on the development of the novel in Spain. Class-room exercises are conducted in Spanish. Composition and commercial correspondence once a week. *Mon., Wed., Fri., at 9.* 12 F. H. ASSOCIATE PROFESSOR BUSSOM. (II)

Course 2 is elective for those who have taken Course 1.

[3. **SPANISH COMPOSITION AND CONVERSATION.** Special attention is given in this course to conversation, together with personal and commercial correspondence, and a study of the Spanish-American countries. *Twice a week.* ASSOCIATE PROFESSOR BUSSOM.]

Course 3 is elective for those who have taken Course 1. It is omitted in 1921-22.

## ENGLISH.

PROFESSORS †MEAD, FARLEY, CONLEY, AND WOODBRIDGE;  
ASSISTANT PROFESSORS SNOW AND HENCH.

1. ENGLISH COMPOSITION. Each member of the class is required to write numerous themes, making practical application of various rhetorical principles. These themes are criticised by the instructor and discussed with the pupil at hours specially appointed. Considerable collateral reading is assigned which furnishes models of the various types of writing. Attendance at the consultation hour is required. SECTIONS 1 and 2, *Mon., Wed., Fri., at 8*; SECTIONS 3 and 4, *Mon., Wed., Fri., at 11*; SECTIONS 5 and 6, *Mon., Wed., Fri., at 1*; SECTION 7, *Mon., Wed., Fri., at 9*; SECTION 8, *Mon., Wed., Fri., at 10*. 12, 37, and 29 F. H. PROFESSOR CONLEY; ASSISTANT PROFESSORS SNOW and HENCH. (VI)

Course 1 is required of Freshmen.

[\*2. NARRATIVE WRITING. In this course a large number of narrative papers of various length are required. Collateral reading in the novel and the short story is assigned, and some of the themes are devoted to criticism of the reading. *Three times a week*. PROFESSOR CONLEY.]

Course 2 is elective, with the permission of the instructor, for those who have taken Course 1. It is omitted in 1921-22.

3. ADVANCED COMPOSITION. A study of various types of composition, with constant practice in theme-writing, and collateral reading. Themes are discussed and criticised in the class-room, and also in conferences. The class ordinarily meets twice a week, but conferences may occasionally take the place of one class period. *Tu., Th., at 2*. 12 F. H. PROFESSOR WOODBRIDGE. (XII)

Course 3 is elective for Sophomores.

4. ARGUMENTATION. A course in the theory and practice of argument, designed to train students in the discovery and proper use of materials, in logical methods of thinking, and in clear, forceful expression. The work comprises the study of

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†Absent on leave.



a text, the preparation of briefs, the writing and delivery of arguments, both formal and informal, and practice in debate. The course, to some extent, is co-ordinated with the public debates of the college. *Mon., Wed., Fri., at 8.* Room B, F. H. ASSISTANT PROFESSOR SNOW. (I)

Course 4 is elective for Sophomores who have taken, or are taking, Philosophy 1; for others, with the permission of the instructor.

[5. HISTORY OF THE ENGLISH LANGUAGE. The aim of this course is to show in lectures and class discussions how English life and culture are illustrated by changes in the meaning of words since the Norman Conquest. Special attention is given to the formation of a working English vocabulary. As far as possible the work is brought into connection with the study of literature. The collateral work involves the use of various books of reference, and in particular of Krapp's *Modern English*, Trench's *English Past and Present*, and Skeat's *Concise Etymological Dictionary*. *Three times a week.* PROFESSOR MEAD.]

Course 5 is elective for Juniors. It is omitted in 1921-22.

6. GENERAL INTRODUCTION TO ENGLISH LITERATURE. An outline of the history of the literature, beginning with the Renaissance. Reading and discussion of representative works illustrating different varieties and periods of English literature. SECTION 1, *Tu., Th., Sat., at 8*; SECTION 2, *Tu., Th., Sat., at 9*; SECTION 3, *Tu., Th., Sat., at 10.* 29 F. H. PROFESSORS FARLEY and WOODBRIDGE, and ASSISTANT PROFESSOR HENCH. (XVI)

Course 6 is elective for Sophomores.

7. SHAKESPEARE. An introductory course. Lectures, discussions, and collateral reading. Fifteen or sixteen plays are studied without minute attention to the text. *Tu., Th., Sat., at 11.* 29 F. H. PROFESSOR WOODBRIDGE. (X)

Course 7 is elective for Sophomores. The advanced courses in English literature are open only to students who have completed either Course 6 or Course 7.

[8. OLD ENGLISH (Anglo-Saxon). An elementary course in Old English, accompanied by a brief course in the history of the English language. A competent acquaintance with Old English is fundamental to the study of the English language and of the early English literature. The principal reading at the outset is in the Gospel of St. John. The grammar is drawn from Cook's First Book in Old English, with copious illustrations and explanations based upon the texts read. The books needed are: Cook, A First Book in Old English; Bright, The Gospel of John in West Saxon; Bradley, The Making of English. *Three times a week.* PROFESSOR MEAD.]

Course 8 is elective for Sophomores, but those only are advised to elect it who have shown some aptitude for the study of language and have formed habits of accuracy. It is omitted in 1921-22.

[9. OLD ENGLISH (Anglo-Saxon). An advanced course in Old English prose and poetry. The first half-year is mainly occupied with historical prose and war poetry, and the second half-year with Beowulf. Lectures illustrated by lantern slides discuss the main features of Old English civilization. *Twice a week.* PROFESSOR MEAD.]

Course 9 is elective for Juniors. It is omitted in 1921-22.

10. CHAUCER. A study of the works of Chaucer and their relation to life in the fourteenth century. A considerable number of the Canterbury Tales are read in class, together with several of the minor poems. For this course no previous knowledge of Anglo-Saxon is required. *Tu., Th., at 11.* 23 F. H. PROFESSOR FARLEY. (X)

Course 10 is elective for those who have taken Course 6, 7, or 8.

[11. ARTHURIAN ROMANCES. The sources and history of the Arthurian Romances. Class readings in some of the better known forms of Arthurian story, such as Tennyson's Idylls of the King, and their sources, and lectures on the older literature that furnished material to Tennyson and other modern poets. The social conditions out of which the romances grew receive special attention, and the life of the Middle Ages is discussed in lectures, illustrated by lantern slides. *Twice a week.* PROFESSOR MEAD.]

Course 11 is elective for Juniors. It is omitted in 1921-22.

[12. SHAKESPEARE. Six plays. *Three times a week.*]

Course 12 is elective for those who have taken Course 6 or Course 7. It is omitted in 1921-22.

[13. ENGLISH LITERATURE OF THE EIGHTEENTH CENTURY. Lectures, discussions, collateral reading, critical reports. The course includes the chief poets and prose writers between Dryden and Wordsworth. *Three times a week.*]

Course 13 is elective for those who have taken Course 6 or Course 7. It is omitted in 1921-22.

[14. ENGLISH POETS AND ESSAYISTS OF THE ROMANTIC PERIOD. Interpretation and discussion of texts; lectures; critical reports. The authors studied are Wordsworth, Coleridge, Byron, Shelley, Keats, Lamb, Hazlitt. *Three times a week.*]

Course 14 is elective for those who have taken Course 6 or Course 7. It is omitted in 1921-22.

[15. ENGLISH POETS AND ESSAYISTS OF THE VICTORIAN PERIOD. Interpretation and discussion of texts; lectures; critical reports. The authors studied are Carlyle, Tennyson, Ruskin, Arnold (verse and prose), Browning. *Three times a week.*]

Course 15 is elective for those who have taken Course 6 or Course 7. It is omitted in 1921-22.

16. AMERICAN LITERATURE. Lectures; interpretation and discussion of texts; collateral reading; critical reports. The course considers the more notable poets and prose writers of America, beginning with the colonial period and continuing to the end of the nineteenth century. *Mon., Wed., Fri., at 10.*  
29 F. H. PROFESSOR FARLEY. (III)

Course 16 is elective for those who have taken Course 6 or Course 7.

[17. THE ENGLISH DRAMA. An historical survey, from the miracle plays to the end of the nineteenth century. *Three times a week.*]

Course 17 is elective for those who have taken Course 6 or Course 7. It is omitted in 1921-22.

[18. THE ENGLISH ESSAY. The development of the essay, with a study of models and an examination of the principles of style. This is a practical course, with close criticism and rewriting of papers, and is designed for students who are prepared to do advanced work. *Twice a week.* PROFESSOR MEAD.]

Course 18 is elective for Juniors. It is omitted in 1921-22.

19. ENGLISH FICTION. Lectures and recitations on prose fiction of the eighteenth and nineteenth centuries, including some study of the theory of narrative composition; collateral readings, class discussions, and written reports. This is a companion course to Course 2, which is omitted in 1921-22. *Mon., Wed., Fri., at 1.* 28 F. H. PROFESSOR CONLEY. (V)

Course 19 is elective for those who have taken Course 6 or Course 7.

20. STUDIES IN THE CONTEMPORARY DRAMA. Lectures, discussions, critical reports. The more significant tendencies in dramatic writing since Ibsen are discussed. Several plays by Pinero, Jones, Galsworthy, Synge, Shaw, Dunsany, Barrie, Moody, and other English, American, and continental European authors are analyzed in class, and additional plays are assigned to the members of the course to be studied and reported upon. The text-book is T. H. Dickinson's *Chief Contemporary Dramatists*, first series. *Mon., Wed., Fri., at 11 (first half-year).* 23 F. H. PROFESSOR FARLEY. (IV)

Course 20 is elective for those who have taken Course 6 or Course 7.

21. THE ART OF POETRY. A discussion of the significance of poetry as a means of expression; its relation to other arts; theories of English and American poets in regard to the nature and aims of poetry; the kinds of subjects that are adapted to poetical treatment; the methods by which the poet achieves his effects; poetic diction, rhythm, rhyme, tone-color; recent tendencies in poetry. The required reading includes not only critical essays, but a considerable amount of English and American verse chosen from various periods. *Mon., Wed., Fri., at 11 (second half-year).* 23 F. H. PROFESSOR FARLEY. (IV)

Course 21 is elective for those who have taken Course 6 or Course 7.

\*22. SEMINARY IN ENGLISH LITERATURE. In 1921-22 the subject for special study is literary criticism. In the first semester a considerable number of nineteenth century essays, representing the more important types of criticism, are read and discussed. The second semester is devoted to a survey of the history and development of critical ideas and standards. *Mon., Wed., Fri., at 9.* 23 F. H. PROFESSOR WOODBRIDGE.

(II)

Course 22 is elective, with the permission of the instructor, for Seniors who have taken Course 6 or Course 7, and one other year-course in English literature.

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## PUBLIC SPEAKING.

ASSISTANT PROFESSOR GUNNISON.

1. ELEMENTARY PRINCIPLES. A general course in fundamental training of voice and body for expression. Emphasis on mental action as the source of expression. Practical oratorical use of knowledge gained in other departments. Text-book, technical exercises, recitations, and speeches. SECTION 1, *Tu., at 9*; SECTION 2, *Tu., at 10*; SECTION 3, *Wed., at 9*; SECTION 4, *Wed., at 10*; SECTION 5, *Wed., at 2.* Room B, F. H.

Course 1 is elective for Sophomores.

2. ORAL INTERPRETATION. Oral interpretation of different forms of literature, with technical instruction and drill in voice and action. Development of initiative, creative power, and artistic insight. Text-book, exercises, recitations, and speeches. SECTION 1, *Th., at 9*; SECTION 2, *Th., at 11*; SECTION 3, *Th., at 1*; SECTION 4, *Th., at 2.* Room B, F. H.

Course 2 is elective for Juniors.

3. PUBLIC ADDRESSES. The analysis of some famous orations. Practice in making original speeches of all kinds. The summoning and controlling in public of all the individual's resources of mind and body. SECTION 1, *Tu., at 1*; SECTION 2, *Tu., at 2.* Room B, F. H.

Course 3 is elective for Seniors.

## DIVISION II.

### PHILOSOPHY AND SOCIAL SCIENCES.

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#### HISTORY.

PROFESSORS †DUTCHER AND WRISTON; DR. WILKINSON; MR. GERRISH.

I. ENGLISH HISTORY. The history of England from the earliest times to the present day. Cross's Shorter History of England and Greater Britain is used as the text-book, and there is required, in addition, the reading of Wakenman's History of the Church of England, Cheyney's Introduction to the Industrial and Social History of England, Montague's Elements of English Constitutional History, and a few selections from Adams and Stephens's Select Documents of English Constitutional History. Lectures and recitations. *Tu., Th., at 1, and a third hour in sections.* 34 S. L. PROFESSOR WRISTON and MR. GERRISH. (XI)

Course 1 is elective for Freshmen. This course is the only one in the second required group of studies (see p. 116) open to Freshmen. Owing to its elementary character this course should be elected not later than the Sophomore year. Course 1, or its equivalent (the course in War Issues given in 1918-19 is considered such equivalent), is prerequisite to the advanced courses in history, except Course 9.

Students electing history as their major study must take Course 1 not later than the Sophomore year, and must complete the nine hours required for a major in this department by taking either courses in American history and government, or courses in European history and government.

N. B. For Courses 2, 3, 4, 5, 6, and 10, ability to read at least one modern language besides English is almost indispensable.

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†Absent on leave.

[2. HISTORY OF THE EXPANSION OF EUROPE. First semester: Portuguese, Spanish, French, Dutch, and English exploration, trade, and colonization in America, Africa, and Asia from the time of Henry the Navigator to the middle of the eighteenth century, with special attention to the administrative systems, the regulation of trade and industry, the treatment of weaker races, the activities of Christian missionaries, and similar problems. Second semester: a similar study of the period since the middle of the eighteenth century, with special reference to the English in India, Canada, Australia, and South Africa, to the Dutch in the East Indies, to the liberation of South America, and to the partition of Africa. Lectures, recitations, and essays. *Three times a week.* PROFESSOR DUTCHER.]

Course 2 is elective for Sophomores who have attained a grade of C— in Course 1, and for Juniors and Seniors who have taken any course in history. Courses 2 and 7 are given in alternate years, Course 2 being omitted in 1921-22.

3. ANCIENT HISTORY. First semester: after a brief survey of the earliest times, the history of Greece from the beginning of the Persian wars, and of Rome from the beginning of the Punic wars, is carried to 133 B. C. Second semester: the history of the Roman republic after 133 B. C., of the Roman empire, and of the so-called Dark Ages to the death of Charles the Great, 814 A. D., with special attention to the rise of Christianity and of Mohammedanism. Botsford's History of the Ancient World, supplemented by seven other books on special periods. Lectures, recitations, and essays. *Tu., Th., Sat., at 9.* 15 F. H. MR. GERRISH. (VIII)

Course 3 is elective for Sophomores who have attained a grade of C— in Course 1, and for Juniors and Seniors who have taken any course in history or who are taking their major in Greek or Latin. By special permission of the instructor, either semester may be elected separately, though it is strongly advised that the course be taken as a whole. This course alternates with Course 4.

[4. MEDIAEVAL HISTORY. First semester: from the death of Charles the Great, 814 A. D., to the close of the thirteenth

century, with the empire, the papacy, and France as the central factors, and with special attention to feudalism, the crusades, and the rise of the towns. Second semester: the development of culture and of the vernacular literatures, the rise of the universities, the renaissance, the age of discovery, the protestant reformation, the counter-reformation, and the wars of religion, to the treaties of Westphalia, covering approximately from 1300 to 1660. Emerton's *Mediaeval Europe and Beginnings of Modern Europe*, supplemented by other books on special periods. Lectures, recitations, and essays. *Three times a week.* MR. GERRISH.]

Course 4 is elective for Sophomores who have attained a grade of C— in Course 1, and for Juniors and Seniors who have taken any course in history. Courses 3 and 4 are given in alternate years, Course 4 being omitted in 1921-22.

5. MODERN EUROPEAN HISTORY. First semester: the age of Louis XIV, the rise of Russia and of Prussia, the enlightened despotism, the French revolution, and the Napoleonic era. Second semester: the Holy Alliance, the revolutionary movements, the development of constitutional government, the unification of Germany and of Italy, with special attention to the more important events and movements since 1870. Stephens's *Syllabus of Modern European History*, Robinson and Beard's *Readings in Modern European History*, Hayes's *Political and Social History of Modern Europe*, and other books on special periods. Lectures, recitations, and essays. *Mon., Wed., Fri., at 10.* 15 F. H. DR. WILKINSON. (III)

Course 5 is elective for Sophomores who have attained a grade of C— in Course 1, and for Juniors and Seniors who have taken any course in history, or who are taking their major in German or Romance languages. In 1921-22 the second semester may be elected separately with the permission of the instructor.

6. HISTORY SEMINARY. Topics for individual research and report are regularly assigned, and the work of the student is subject to the constant supervision and criticism of the instructor. At the close of the year, each student is required, as a test of his ability to do research and to present his results



in a correct and lucid manner, to prepare an essay or thesis of considerable length upon some topic studied in the course. During the year 1921-22, the course is devoted to studies in international law and diplomatic relations, with special reference to American policy in the Caribbean since 1898. *Th., 7-10 p. m., counting as three hours for the year.* 10 F. H. PROFESSOR WRISTON.

Course 6 is elective, with the permission of the instructor, for Seniors who have shown, in earlier courses in the department, ability to do advanced work in history.

7. UNITED STATES HISTORY, 1750-1829. First semester: the French and Indian war, the English colonial system and the struggle precipitated by the attempts of George III. and his ministers to remodel it, the war for independence, the confederation, the framing and ratification of the state and federal constitutions. Second semester: the first six presidents, their personalities, problems, and policies, the problem of relations with Europe, the war of 1812, the Monroe doctrine, national expansion, growth of democracy. The important constitutional, political, economic, and social developments are emphasized. Channing's History of the United States, volumes 2, 3, 4 and 5, and other works. Lectures, recitations, and essays. *Mon., Wed., Fri., at 1.* 15 F. H. PROFESSOR WRISTON. (V)

Course 7 is elective for those who have taken any course in history or economics. This course alternates with Course 2.

8. UNITED STATES HISTORY, 1829-1920. First semester: The personalities, policies, and achievements of the more important presidents and political leaders, and the important constitutional, political, economic, and social developments to the close of the civil war. Second semester: Reconstruction, the new economic and social problems, the United States as a colonial and world power. Dodd's Expansion and Conflict, Lingley's History of the United States since the Civil War, and collateral readings. Lectures, recitations, and essays. *Tu., Th., Sat., at 8.* 15 F. H. DR. WILKINSON. (VII)

Course 8 is elective for those who have taken any course in history or economics.

9. AMERICAN GOVERNMENT. First semester: a survey of the development of constitutional government in America,

followed by a study of the origin, development, present condition, and methods of operation of the several organs of the federal government; the rise, organization, and methods of political parties. Second semester: the growth of the state constitutions, and the organization and operation of the state governments; local government and municipal administration; and the rights and obligations of citizens. In the treatment of the various topics, the significance of the historical development is constantly emphasized, comparisons with other countries are made, and discussion is turned from time to time to the fundamental problems of systematic political theory. Merriam's American Political Ideas, Beard's American Government and Politics, Munro's Government of American Cities, and collateral readings. Discussions and reports. SECTION 1, *Mon., Wed., Fri., at 8*; SECTION 2, *Tu., Th., Sat., at 11.* 15 F. H. DR. WILKINSON. (I)

Section 1 of this course is elective for students majoring in history, and for those who have taken, or are taking, Course 7 or Course 8. Section 2 is elective for Juniors and Seniors not eligible for Section 1, and for Sophomores who have received permission to take the course to meet the generalization requirement.

[10. COMPARATIVE GOVERNMENT. First semester: a systematic study of the constitutions, of the national, local, and municipal systems of administration, of political parties, and of the functions of government in Great Britain, France, and Germany with special attention to the results of the war. Second semester: a similar survey of the other European countries, of the Latin-American countries, of self-governing dependencies, of Japan, China, and India, with some consideration of colonial administration. The aim of the course is to present the development of constitutional government outside of the United States, and to study the internal problems of the more important countries, with constant attention to American parallels and to the problems of systematic political theory. The course is intended to give a clearer knowledge of the contemporary conditions of other countries, and to develop broader political views. Discussions and reports. *Three times a week.* DR. WILKINSON.]

Course 10 is elective for Sophomores who have attained a grade of C— in Course 1, and for Juniors and Seniors who have taken any course in history. This course is omitted in 1921-22, but will be given in 1922-23 and alternate years thereafter.

## ECONOMICS AND SOCIAL SCIENCE.

PROFESSOR TUTTLE; ASSOCIATE PROFESSORS FISHER AND  
WILLIAMSON; MR. MACKENZIE.

1. PRINCIPLES OF ECONOMICS. This course gives the student a scientific analysis of modern industrial society, and acquaints him with the principles of political economy and correct methods of analysis. The aim is to give, first, discipline in habits of scientific thinking in regard to all social phenomena, and, second, perspective and a basis of sound knowledge for further and more intensive study in the general field of economics and social science. The means of instruction in this and in the other courses in economics are textbooks, lectures, discussions, reports, collateral reading, and frequent written tests. SECTIONS 1 and 2, *Mon., Wed., Fri., at 9*; SECTIONS 3 and 4, *Mon., Wed., Fri., at 2*. 14 and 15 F. H. PROFESSOR TUTTLE, ASSOCIATE PROFESSORS FISHER and WILLIAMSON. (II)

Course 1 is elective for Sophomores.

2. ECONOMIC HISTORY. Industrial and commercial development from the middle of the eighteenth century to the Great War. The course begins with the history of the industrial revolution, and includes the study of international trade, the free trade movement in England, protectionism in France, Germany, and the United States, railways and waterways, trans-oceanic competition, agriculture and manufacturing, particularly the rise of the steel and textile industries in Western Europe, England, and the United States. In the second semester special attention is given to the financial history of the United States. *Tu., Th., Sat., at 8*. 12 F. H. MR. MACKENZIE. (VII)

Course 2 is elective for those who have taken Course 1, and, with the permission of the instructor, for those who are taking Course 1.

3. CORPORATIONS, TRUSTS, AND MONOPOLIES. The historical development and analysis of the different forms of industrial organization, including the single proprietorship, partnership, joint-stock company, and corporation, and the later developments, such as the pool, trust, holding company, consolidated corporation, and "community of interest." Critical study of the economic and social effects of great combinations, illustrated by documents. The elements of corporation finance, with especial reference to organization and management. The evils of corporate organization, such as fraudulent promotion, over-capitalization, and manipulation. Public policy toward corporations. Conditions insuring progress in method and organization. The evil effects of monopoly, and the problems of control. Legislation in the United States and other countries, and important legal decisions. Public service corporations; public utilities commissions. The principles of transportation and railroad problems, economic, social and legal; the Interstate Commerce Commission. SECTION 1, *Tu., Th., Sat., at 10.* 15 F. H. SECTION 2, *Tu., Th., Sat., at 11.* 14 F. H. ASSOCIATE PROFESSOR FISHER. (X)

Course 3 is elective for Juniors who have received grade C— or better in Course 1, and for Seniors who have taken Course 1.

4. MONEY AND BANKING. The theory of money, and the principles of monetary circulation. The origin and development of money; coinage; monometallism and bimetalism. The monetary history of the United States, England, France, and Germany. The production of the precious metals, and its relation to monetary policy. International bimetalism. The evolution of the gold standard. The principles of credit and the nature and functions of credit instruments. The theory and history of government issues of paper currency, and especially the "greenback" experiment in the United States. The theory and history of banking, and the evolution of bank-note currency and deposit currency. The development of the banking systems of France, England,

Germany, and the United States. Monetary and banking problems of the United States. Foreign exchange. Particular attention is given to the study of the Federal Reserve System, and of monetary and banking problems of the war and reconstruction. *Tu., Th., Sat., at 9.* 14 F. H. MR. MAC-KENZIE. (VIII)

Course 4 is elective for Juniors who have received grade C— or better in Course 1, and for Seniors who have taken Course 1.

5. PUBLIC FINANCE. This course covers, in a general manner, the entire field of public finance, but pays special attention to taxation. Public expenditures, revenues from various sources, public debts, and budgets will be studied with reference both to theory and to the practice of various nations. SECTION 1, *Mon., Wed., Fri., at 11.* 14 F. H. SECTION 2, *Mon., at 11; Th., Sat., at 8.* 39 F. H. ASSOCIATE PROFESSOR WILLIAMSON. (IV)

Course 5 is elective for Juniors who have received grade C— or better in Course 1, and for Seniors who have taken Course 1.

[\*6. STATISTICS AND ACCOUNTING. First semester: Statistics. This course deals with the collection, presentation, analysis and interpretation of economic statistics. Special attention is given to tabulating data, the use and construction of graphs and diagrams, frequency-distributions, and computation and use of averages, index numbers, dispersion, and correlation. A critical examination is made of modern statistical practice, and the sources of statistics are pointed out and evaluated. Besides lectures and class-room discussions, section exercises are conducted to give practice in statistical method, and in the diagrammatic and graphical presentation of data. *Two lecture hours and two hours in section exercise, four hours counting as three.*

Second semester: Accounting. This course presents the principles and methods of accounting. Accounting terminology and the meaning of various accounts are studied. The construction and analysis of balance sheets and income statements are covered. Special attention is given to the treatment of costs, depreciation funds, reserves, surpluses, profits, etc. The work is carried on by means of lectures,

class-room discussions, and outside problems. *Three times a week.* ASSOCIATE PROFESSOR WILLIAMSON.]

Course 6 is elective, with the permission of the instructor, for those who have completed two courses in the department with grade C— or better. It is omitted in 1921-22.

Students interested in mathematics are advised to take Mathematics 11 and 12 either the year after, or the same year as, they take Economics 6.

7. LABOR, SOCIALISM, AND SOCIAL REFORM. The evolution of the modern industrial laborer, and his position under the wages system. The *laissez-faire* policy and the rise of the factory system. Socialism; the important socialistic theories and the socialistic movement. Social reform; theory of social reform, and practical movements and programs which aim to improve the industrial laborer's place in industry and society. Special attention is given to coöperation, profit sharing, trade unionism and its policies, collective bargaining, industrial arbitration, scientific management, labor legislation, industrial councils, and other aspects of the problem of the place of the laborer in industry. The work is carried on by means of lectures, reports, discussions, and frequent written tests on assigned readings. *Mon., Wed., Fri., at 9.* 29 F. H. PROFESSOR TUTTLE. (II)

Course 7 is elective for Juniors who have received grade C— or better in Course 1, and for Seniors who have taken Course 1.

8. SOCIOLOGY. The principles of sociology. A discussion of the theory of adaptation, and the philosophical background of modern sociological thought. The analysis of the forces and factors shaping social institutions and determining national welfare. The study of selected problems, including poverty and social unrest. Lectures, reports, discussions, and written tests on assigned reading. *Mon., Wed., Fri., at 10.* 14 F. H. MR. MACKENZIE. (III)

Course 8 is elective for Juniors who have received grade C— or better in Course 1, and for Seniors who have taken Course 1.

9. ADVANCED ECONOMICS. Historical and critical study of economic doctrines. Current tendencies in economics. Lec-

tures, readings, and discussions on economic thought since John Stuart Mill. Special attention is given to the distinctive features of the several schools of economic thought, and to theories of value and distribution. *Mon., Wed., Fri., at 2.*  
31 F. H. PROFESSOR TUTTLE. (VI)

Course 9 is elective for those who have received grade C— or better in Course 1. Students majoring in economics are advised to take this course.

\*10. ECONOMICS SEMINARY. Subject for 1921-22: selected economic problems. A problem for individual investigation and report is chosen by the student. The student works under the direction and supervision of the instructor, is expected to report weekly on the progress made, and finally to prepare a thesis exhibiting the results of the year's research. *Mon., 7-10 p. m., counting as three hours for the year.* 10 F. H. PROFESSOR TUTTLE.

Course 10 is elective, with the permission of the instructor, for those Seniors who have shown, in earlier courses in the department, the ability to undertake individual research.

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## PHILOSOPHY.

PROFESSOR ARMSTRONG; ASSISTANT PROFESSOR GIVEN.

1. LOGIC. Jevons-Hill's Elements of Logic; lectures and recitations, illustrated by numerous examples in logical praxis. An elementary course in the forms of reasoned thinking, both deductive and inductive. SECTIONS 1 and 2, *Mon., Wed., Fri., at 11*; SECTION 3, *Tu., Th., Sat., at 11 (first half-year)*. Same sections second half-year, alternating with the sections in Psychology 1. 28 and 15 F. H. PROFESSOR ARMSTRONG and ASSISTANT PROFESSOR GIVEN. (XVIII)

Course 1 is elective for Sophomores.

2. ANCIENT AND MEDIAEVAL PHILOSOPHY. Zeller's Outlines of Greek Philosophy, with references to other authorities. Falckenberg's History of Modern Philosophy. Lectures, recitations, and discussions on the historical development of philosophy to the beginning of modern times

*Mon., Wed., Fri., at 9 (first half-year).* 28 F. H. PROFESSOR ARMSTRONG. (II)

Course 2 is elective for Juniors who have taken any one of the following courses: Philosophy 1, Psychology 1, the introductory course in ethics. Juniors who elect it must have received grade C or better in one of these courses.

3. MODERN PHILOSOPHY TO 1840. Falckenberg's History of Modern Philosophy; lectures, recitations, discussions, and references to other standard authorities. The progress of modern philosophy is traced to the opening of the present age. *Mon., Wed., Fri., at 9 (second half-year).* 28 F. H. PROFESSOR ARMSTRONG. (II)

Course 3 is elective, under ordinary circumstances, for those who have taken Course 2.

4. READINGS IN PHILOSOPHY. Readings in the philosophical classics, ancient and modern, and in collateral authorities. The selections read are made the subject of discussion in the class-room; abstracts and theses may also be required. *Tu., Th., at 9.* 24 F. H. ASSISTANT PROFESSOR GIVEN. (VIII)

Course 4 is elective for those who are taking, or who have taken, Courses 2 and 3.

5. PHILOSOPHY OF THE STATE. Political philosophy from Plato to the present time, and the principal concepts of American law. Coker's Readings in Political Philosophy. The selections read are made the subject of discussion in the class-room, supplemented by occasional lectures. Abstracts and theses may also be required. *Th., at 2.* 24 F. H. ASSISTANT PROFESSOR GIVEN. (XII)

Course 5 is elective for those who are taking, or who have taken, Courses 2 and 3. In exceptional circumstances, students who have passed Course 1 with grade C or better may also be admitted.

\*6. PHILOSOPHY OF THE NINETEENTH CENTURY. Lectures, readings, and discussions on philosophical thought since the disruption of the Hegelian school. In the second half of the year the work is conducted by the seminary method. Special attention is given to contemporary English and



American philosophy, and to recent types of opinion, as pragmatism, the new realism, and the systems of Bergson and Eucken. *Tu.*, 2:30-4:00 p. m., counting as two hours. 24 F. H. PROFESSOR ARMSTRONG.

Course 5 is elective, with the permission of the instructor, for those who have taken Courses 2 and 3, or their equivalent.

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## PSYCHOLOGY.

PROFESSOR DODGE; ASSISTANT PROFESSOR HUMPHREY.

1. ELEMENTARY PSYCHOLOGY. Lectures and recitations, based on Pillsbury's Essentials of Psychology, and references to other standard texts. SECTIONS 1 and 2, *Mon., Wed., Fri., at 11*; SECTION 3, *Tu., Th., Sat., at 11 (first half-year)*. Same sections second half-year, alternating with the sections in Philosophy 1. 22 and 37 F. H. PROFESSOR DODGE and ASSISTANT PROFESSOR HUMPHREY. (XVIII)

Course 1 is elective for Sophomores. It may not be elected alone, but must be elected with Philosophy 1. It is preparatory to all later work in the department, and it should therefore be taken in Sophomore year by all students who plan to elect their major studies in psychology.

2. PHYSIOLOGICAL AND EXPERIMENTAL PSYCHOLOGY. Lectures and class demonstrations, with collateral reading. The course aims at a dynamic psychology. It deals with the nervous conditions of consciousness, with special reference to mental work, fatigue, and efficiency, the origin and integration of knowledge and conduct. Experimental methods of investigation are discussed and illustrated by class demonstrations. *Tu., Th., Sat., at 8.* 22 F. H. PROFESSOR DODGE. (VII)

Course 2 is elective for those who have taken Course 1, or who are taking it in their Junior or Senior year.

[3. EMOTIONS AND WILL. Lectures and reports. A systematic general account of the emotions, the will, and human personality. A more detailed account of special phenomena,

including anger, fear, the tender emotions, sympathy, the aesthetic emotions, the religious emotions, emotional prejudice, the motor value of ideas, suggestion and hypnotism, compulsive ideas, etc. *Twice a week.* PROFESSOR DODGE.]

Course 3 is elective for those who have taken Course 1. It is omitted in 1921-22.

4. EDUCATIONAL PSYCHOLOGY. Lectures and required readings aiming to give a psychological insight into the problems of education, including the theory and practice of mental tests, with actual testing in schools. In conjunction with Course 1, this course is planned to meet the requirements in educational psychology of those states and cities which demand the professional training of teachers, but it is also intended to serve the needs of those whose interest in the psychological problems of education is non-professional. *Mon., Wed., Fri., at 8.* 14 F. H. ASSISTANT PROFESSOR HUMPHREY. (I)

Course 4 is elective for those who have taken Course 1.

5. APPLIED PSYCHOLOGY. First semester: Business and industrial applications; psychological principles involved in management, vocational guidance, selection of employees, advertising, and salesmanship. Second semester: Applications of psychology to abnormal cases. *Tu., Th., at 9.* 15 F. H. ASSISTANT PROFESSOR HUMPHREY. (VIII)

Course 5 is elective for those who have received grade C— or better in Course 1. The two halves may be elected independently with the permission of the instructor.

6. SOCIAL PSYCHOLOGY. Effects of the group on the mental processes of the individual in the herd, mob, and organized society; the conditions and products of inter-action between minds, as in language, art, morals, loyalty, and leadership; the hypothesis of super-individual minds. Recitations, reports, and lectures. *Tu., Th., at 10.* 14 F. H. PROFESSOR DODGE. (IX)

Course 6 is elective for those who have taken Course 3, and for those who have received grade C— or better in Course 1.

[\*7. HISTORY OF PSYCHOLOGY. Lectures, reports, and critical reading of selected psychological classics. First semester:

The development of psychological thought from prehistoric beliefs through the Greek to the mediaeval period. Second semester: the discussion is brought down to modern times, and includes an account of the outstanding tendencies of the present day. *Twice a week.* ASSISTANT PROFESSOR HUMPHREY.]

Course 7 is elective, with the permission of the instructor, for those who have taken Course 1. It is omitted in 1921-22.

\*8. LABORATORY COURSE. Experimental study of special problems. *Mon., 7-9 p. m., counting as one hour.* 22 F. H. PROFESSOR DODGE.

Course 8 is elective, with the permission of the instructor, for those who have taken Course 2.

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## ETHICS AND RELIGION.

ASSISTANT PROFESSOR CHANTER.

1. THE ENGLISH BIBLE. An introductory course. The object of the course is to give a knowledge of the main outlines of the biblical literature, with sufficient attention to the results of critical scholarship to place the student in touch with the modern view of the value and authority of the Bible. *Mon., Wed., Fri., at 8.* 28 F. H. (I)

Course 1 is elective for Sophomores. Those who passed the last half of the course in 1920-21 may elect the first half in 1921-22, but hereafter the course must be elected as a unit.

[\*2. THE ETHICS AND RELIGION OF THE BIBLE. First semester: The work and teaching of the prophets; development of ethical monotheism; rise of Judaism; the development between the Testaments. Second semester: The teaching of Jesus; the development of thought in the early church. *Three times a week.*]

Course 2 is elective, with the permission of the instructor, for those who have taken Course 1, or its equivalent. It is omitted in 1921-22.

3. ETHICS. An introductory course. First semester: Outlines of ethical theory. Second semester: Problems of individual and social ethics. *Mon., Wed., Fri., at 10.* 28 F. H. (III)

Course 3 is elective for Juniors.

4. THE PHILOSOPHY OF RELIGION. The development of the principal religious ideas; their philosophical statement. *Tu., Th., Sat., at 10.* 28 F. H. (IX)

Course 4 is elective for Juniors.

[5. SEMINARY IN THE HISTORY OF ETHICS. Studies in the great periods of ethical thought. *Two hours a week.*]

Course 5 is elective for those who have taken Course 3 or its equivalent, or a course in the history of philosophy, and have received a grade of B or better; and for others, whose scholarship is high, with the permission of the instructor.

## DIVISION III.

### MATHEMATICS AND NATURAL SCIENCES.

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### MATHEMATICS.

PROFESSORS HOWLAND AND CAMP; ASSISTANT PROFESSORS MATHEWS,  
POWERS, AND VAN DYKE.

1. **ELEMENTARY COLLEGE MATHEMATICS.** Courses 1 and 2 together comprise a single, unified course, designed primarily for those who do not intend to take advanced courses in mathematics or in the exact sciences. In course 1 the emphasis is on trigonometry and methods of computing. It is a sufficient preparation for Course 1 in physics, and for Course 1 in astronomy. Courses 1 and 3 together form a single, unified course designed for those who may wish to take other courses in mathematics or to study the exact sciences. SECTION 1, *Mon., Wed., Fri., at 8*; SECTION 2, *Mon., Wed., Fri., at 9*; SECTION 3, *Mon., Wed., Fri., at 10*; SECTION 4, *Tu., Th., Sat., at 8*; SECTION 5, *Tu., Th., Sat., at 9*; SECTION 6, *Tu., Th., Sat., at 10 (first half-year)*. 25 and 26 O. H. PROFESSOR CAMP; ASSISTANT PROFESSORS MATHEWS, POWERS, and VAN DYKE. (XIV)

Course 1 is elective for those who have not presented for admission both trigonometry and advanced algebra.

2. **ELEMENTARY COLLEGE MATHEMATICS.** Continuation of Course 1, with special emphasis on the mathematical theory of investment. Sections to be arranged (*second half-year*). 25 and 26 O. H. PROFESSOR CAMP and ASSISTANT PROFESSOR MATHEWS. (XIV)

Course 2 is elective for those who have taken Course 1.

3. **ELEMENTARY COLLEGE MATHEMATICS.** Continuation of Course 1, with special emphasis on analytic geometry. Sections to be arranged (*second half-year*). 25 and 26 O. H.

PROFESSOR CAMP, and ASSISTANT PROFESSORS MATHEWS, POWERS, and VAN DYKE. (XIV)

Course 3 is elective for those who have taken Course 1.

4. ALGEBRA, PLANE AND SOLID ANALYTIC GEOMETRY. The course is designed for those who have already had some elementary college mathematics, and who are preparing to take more advanced courses in this department or in the field of exact science. SECTION 1, *Mon., Wed., Fri., at 11*; SECTION 2, *Tu., Th., Sat., at 8.* 25 and 26 O. H. PROFESSOR CAMP. (XIV)

Course 4 is elective for those who have not taken Course 3, and either have presented for admission trigonometry and advanced algebra or have taken Course 2. It is elective, with the permission of the instructor, also for those who have taken only Course 1.

Candidates for the degree of Ph. B. who have not presented for admission one unit of advanced mathematics must take Courses 1 and 2, except that Course 3 may be substituted with the permission of the instructor for Course 2; those who have presented only one-half unit of advanced mathematics must take Course 1.

Candidates for the degree of B. S. who have not presented for admission trigonometry and advanced algebra are required to take Courses 1 and 3, unless they are advised by the instructor to take Course 4 instead; those who have presented both these subjects are required to take Course 4.

[\*5. SURVEYING. The theory and use of chain, tape, compass, level, and transit; surveying methods, problems, and computations, together with practical field and office work; spherical trigonometry. *Two lecture hours, and two hours of field work, four hours counting as three.* 26 O. H. ASSISTANT PROFESSOR MATHEWS.]

Course 5 is elective, with the permission of the instructor, for those who have taken Course 1, and for Freshmen who have taken a course in trigonometry. It is omitted in 1921-22.

6. PROJECTIVE GEOMETRY. An introductory course, treating of the properties of straight lines, polygons, the conic

sections, and conicoids, by means of projective relations. *Tu., Th., Sat., at 10 (first half-year).* 26 O. H. ASSISTANT PROFESSOR MATHEWS. (IX)

Course 6 is elective for those who have taken Course 3 or Course 4.

7. DIFFERENTIAL AND INTEGRAL CALCULUS. Elementary course. *Mon., Wed., Fri., at 10.* 26 O. H. PROFESSOR HOWLAND. (III)

Course 7 is elective for those who have taken Course 3 or Course 4.

8. ANALYTIC GEOMETRY. Advanced course, beginning with a review of plane analytic geometry and extending into the subject of solid analytic geometry. *Tu., Th., Sat., at 10 (second half-year).* 26 O. H. ASSISTANT PROFESSOR MATHEWS. (IX)

Course 8 is elective for those who have taken Course 3 or Course 4.

[\*9. THE FUNDAMENTAL CONCEPTS OF MATHEMATICS. In this course the fundamental concepts of elementary algebra and geometry are considered in the light of recent investigations in this field. The course is intended for those who are interested in the logical aspects of mathematics and for those who expect to teach the elementary branches of the subject. *Three times a week (second half-year).*]

Course 9 is elective, with the permission of the instructor, for those who have taken a course in analytic geometry. It is omitted in 1921-22.

[10. HIGHER ALGEBRA. An introduction to some of the important branches of higher algebra: properties of polynomials, systems of linear equations, linear transformations, invariants, quadratic forms, etc. *Three times a week (first half-year).* PROFESSOR HOWLAND.]

Course 10 is elective for those who have taken Courses 3 or 4, and 7. It is omitted in 1921-22.

11. PROBABILITY AND PHYSICAL MEASUREMENTS. The elements of probability, the law of errors, measures of precision and rules for computation, cumulative errors, weights,

least squares. *Mon., Wed., Fri., at 1 (first half-year).*  
26 O. H. PROFESSOR CAMP. (V)

Course 11 is elective for those who have taken, or are taking, Course 7.

12. PROBABILITY AND STATISTICS. Frequency distributions, averages and measures of dispersion, Pearson's curves and the method of moments; sampling, the significance of a difference; correlation; finite differences and interpolation. *Mon., Wed., Fri., at 1 (second half-year).* 26 O. H. PROFESSOR CAMP. (V)

Course 12 is elective for those who have taken Course 11.

Students interested in economics or social science are advised to take Economics 6 either the year before, or the same year as, they take Mathematics 12.

[13. MECHANICS. Statics of rigid bodies and of other systems of particles, including as much of the theory of strings as is necessary to the study of cables hanging freely or supporting a bridge. The motion of particles under constant and under variable forces, including the study of impulsive forces, and of elasticity. An elementary treatment of the motion of a rigid body. *Three times a week.* PROFESSOR CAMP.]

Course 13 is elective for those who have taken Course 7. It is omitted in 1921-22, but will be given in 1922-23.

14. CALCULUS. Second course, including, in the first half-year, a more extended discussion of some of the subjects introduced in Course 7, and in the second half-year an introduction to the theory of differential equations, with applications to geometry, mechanics, and physics. *Mon., Wed., Fri., at 11.* 25 O. H. PROFESSOR HOWLAND. (IV)

Course 14 is elective for those who have taken Course 7.

[15. CELESTIAL MECHANICS. The scope and content of this course are indicated in Moulton's text-book. *Three times a week.* PROFESSOR CAMP.] (XV)

Course 15 is elective for those who have taken Course 13. It is omitted in 1921-22.



\*16. **FOURIER'S SERIES AND SPHERICAL HARMONICS.** Byerly's text-book is used in this course. *Mon., Wed., Fri., at 2; Tu., Th., Sat., at 7.* 26 O. H. PROFESSOR CAMP.

Course 16 is elective, with the permission of the instructor, for graduate students.

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## ASTRONOMY.

PROFESSOR SLOCUM.

1. **DESCRIPTIVE ASTRONOMY.** A general introduction to the subject, dealing with the fundamental conceptions of the celestial sphere, astronomical instruments, the earth, moon, sun, planets, and their satellites, comets, meteors, stars, nebulae, and a brief outline of modern cosmogonies. Recitations, lectures, constellation study, and frequent use of the telescope. *Mon., Wed., Fri., at 1.* VAN VLECK OBSERVATORY. (V)

Course 1 is elective for those who have taken, or are taking, a course in trigonometry.

2. **PRACTICAL ASTRONOMY.** Use of sextant, transit, zenith telescope, chronometer, and chronograph for solving such problems as time, latitude, longitude, and azimuth as used in astronomy, geodesy, and navigation. Use of equatorial telescope for simple observations. Methods of computation. *Wed., Fri., at 9, and two hours of observations, four hours counting as three.* VAN VLECK OBSERVATORY. (II)

Course 2 is elective for those who have taken, or are taking, a course in trigonometry.

3. **HISTORY OF ASTRONOMY.** A rapid survey of the development of the science from its origin down to the present time. Lectures, collateral reading, reports. *Mon., Wed., Fri., at 10 (second half-year).* VAN VLECK OBSERVATORY. (III)

Course 3 is elective for Sophomores. It may not be elected by those who have taken, or who are taking, Course 1.

[4. SPHERICAL ASTRONOMY AND OBSERVATORY PRACTICE. Reduction and determination of positions of fixed stars. Proper motion and parallax. Star catalogues. Theory and adjustment of the equatorial. Use of the micrometer and comparator for measuring double stars, positions of planetoids, comets, etc. *Three times a week.*]

Course 4 is elective for those who have taken Course 2 in astronomy and Course 7 in mathematics. Courses 4 and 5 are given in alternate years. Course 4 is omitted in 1921-22.

5. ASTROPHYSICS. Theory and use of the spectroscope, photometer, and astronomical camera. Spectroscopic study of the sun and stars. Binary systems. Variable stars. Measurement of spectra and direct photographs. *Tu., Th., at 9, and two hours of observations, four hours counting as three.* VAN VLECK OBSERVATORY. (VIII)

Course 5 is elective for those who have taken Courses 2 and 1 or 3 in astronomy, and Course 7 in mathematics.

[\*6. INTRODUCTION TO CELESTIAL MECHANICS. Laws of motion. Study of parabolic and elliptic orbits. *Three times a week.*]

Course 6 is elective, with the permission of the instructor, for those who have taken Course 4. It is omitted in 1921-22.

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## PHYSICS.

PROFESSOR CADY; ASSISTANT PROFESSORS POWERS AND VAN DYKE.

1. ELEMENTARY PHYSICS. A general course, following a standard text-book. Two demonstration lectures and a two-hour laboratory period weekly, and, in addition, at the discretion of the instructors, a third hour weekly for supplementary lecture, discussion, or examination. *Tu., Th., Sat., at 11, with an additional two-hour laboratory period, counting as three hours.* PROFESSOR CADY, ASSISTANT PROFESSORS POWERS and VAN DYKE. (X)

Course 1 is elective for those who have presented trigonometry for admission, or who are taking, or have taken, Course 1 in mathematics.

2. **ELEMENTARY PRACTICAL PHYSICS.** The course includes elementary experiments in all the principal branches of physics. *Five (counting as two) hours a week. With permission of the instructor, the course may be elected for two and one-half (counting one) or seven and one-half (counting three) hours.* S. L. PROFESSOR CADY and ASSISTANT PROFESSOR VAN DYKE.

Course 2 is elective for those who have taken Course 1 or its equivalent.

3. **SOUND.** A general treatment of the phenomena of sound. Based largely on text-book, with demonstrations, and with laboratory practice about once a week. *Tu., Th., Sat., at 8 (first half-year).* 34 S. L. ASSISTANT PROFESSOR VAN DYKE. (VII)

Course 3 is elective for those who have taken Course 1.

4. **GEOMETRICAL AND PHYSICAL OPTICS.** An elementary treatment of geometrical optics and the wave-theory of light, —interference, diffraction, spectrum analysis, double refraction, polarization, etc. Based largely on a text-book, with demonstrations, and with laboratory practice about once a week. *Tu., Th., Sat., at 8 (second half-year).* 34 S. L. ASSISTANT PROFESSOR POWERS. (VII)

Course 4 is elective for those who have taken Course 3 and have taken, or are taking, Mathematics 7.

[5. **HEAT.** A general course in the subject, omitting thermodynamics. Text-book and lectures, with demonstrations, and with frequent laboratory practice. *Three times a week (first half-year).*]

Course 5 is elective for those who have taken Course 1. It is omitted in 1921-22.

[6. **THERMODYNAMICS.** Text-book and lectures on the elements of thermodynamics, with special application to the steam engine and the internal combustion engine, and with opportunity for some elementary exercises in engine testing. *Three times a week (second half-year).*]

Course 6 is elective for those who have taken Course 5, and who are taking, or have taken, Course 7 in mathematics. It is omitted in 1921-22.

7. APPLICATIONS OF ELECTRICITY AND MAGNETISM. Text-book and lectures. A descriptive course in electricity and magnetism, with special reference to the elements of telegraphy and telephony, electric lighting, storage batteries, and X-rays. *Mon., Wed., Fri., at 9.* 34 S. L. PROFESSOR CADY. (II)

Course 7 is elective for those who have taken Course 1 or its equivalent. Those taking Course 7 are advised to elect at the same time, if possible, Course 2 or Course 8.

8. EXPERIMENTAL ELECTRICITY. Laboratory practice in electricity and magnetism, with occasional lectures. Opportunity is afforded for some shop-work. *Five (counting as two) hours a week. With permission of the instructor, the course may be elected for seven and one-half (counting three) hours.* S. L. PROFESSOR CADY.

Course 8 is elective for those who have taken Courses 1 and 2, and who have taken, or are taking, Course 7.

[9. DYNAMOS, MOTORS, AND TRANSFORMERS. Text-book and lectures on the elements of direct and alternating current machinery, with laboratory tests by the class. Use is made of the steam engine and generator at the boiler house. *Three times a week (first half-year).* PROFESSOR CADY.]

Course 9 is elective for those who have taken Courses 2 and 7. It is advisable, though not necessary, to take Course 7 in mathematics before electing this course. It is omitted in 1921-22.

[\*10. THE CONSTITUTION OF MATTER. Text-book, lectures, and collateral reading on conduction of electricity through gases, elements of the electron theory, analysis of crystal structure by X-rays, and nature of the atom. *Three times a week (second half-year).* PROFESSOR CADY.]

Course 10 is elective, with the permission of the instructor, for those who have taken, or are taking, Courses 7 in physics and 7 in mathematics. It is omitted in 1921-22.

11. **ADVANCED ELECTRICITY.** Text-book and lectures on the elementary mathematical theory of electricity and magnetism. The second half-year is devoted to radio-telegraphy, and the work is in part experimental. *Tu., Th., Sat., at 9. 34 S. L.* PROFESSOR CADY. (VIII)

Course 11 is elective for those who have taken Courses 2 and 7 in physics, and Course 7 in mathematics.

12. **PRACTICAL PHYSICS.** Careful measurements and precision discussions in mechanics, heat, sound, and light. *Five, or seven and one-half, hours a week, counting as two or three hours respectively.* S. L. ASSISTANT PROFESSOR POWERS.

Course 12 is elective for those who have taken Course 2. Those electing it will be expected to take, or to have taken, one or more of Courses 3-7.

\*13. **ADVANCED EXPERIMENTAL ELECTRICITY.** Selected problems in electricity and magnetism, particularly in alternating currents, electric oscillations, and discharge through gases. *Five, or seven and one-half, hours a week, counting as two or three hours respectively.* S. L. PROFESSOR CADY.

Course 13 is elective, with the permission of the instructor, for those who have taken Course 8 in physics and Course 7 in mathematics, and who have taken, or are taking, Course 9, 10, or 11 in physics.

\*14. **THERMIONIC PHENOMENA AND THEIR APPLICATIONS IN PHYSICS.** Lectures and laboratory work on the theory of the two-element and three-element thermionic tube, and its application as rectifier, detector, amplifier, and oscillator. *Three times a week, the hours to be determined (second half-year).* ASSISTANT PROFESSOR POWERS.

Course 14 is elective, with the permission of the instructor, for those who have taken Courses 2 and 7 in physics, and Course 7 in mathematics.

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Students planning to specialize in physics are advised to elect as many as practicable of the following courses in other departments: Mathematics 11, 13, and 14; Chemistry 2, 4, 5, 9.

## CHEMISTRY.

PROFESSOR HOOVER; ASSOCIATE PROFESSOR HILL; MR. CAVELTI.

1. **ELEMENTARY CHEMISTRY.** A general introductory course, largely descriptive, consisting of two demonstration lectures or class discussions, one supplementary lecture or discussion at the discretion of the instructor, with one three-hour laboratory period, counting as *three* hours. Lectures, *Tu., Th., at 9.* Laboratory, *Wed., 1-4, Th., 1-4, or Fri., 1-4.* Supplementary lecture, *Sat., at 9.* 3 J. H. PROFESSOR HOOVER. (XII)

Course 1 is elective for students beginning the study of chemistry, and, with the permission of the instructor, for those whose previous training does not fit them for Course 2. Students who receive credit in chemistry on admission to college, but who take this course, will be given one and one-half hours credit.

1A. **ELEMENTARY THEORETICAL INORGANIC CHEMISTRY.** A review of the elementary theories and laws of chemistry, with special emphasis upon the theories of solution and chemical equilibrium, presented by lectures and class discussions. *Mon., Wed., Fri., at 10 (second half-year).* 3 J. H. PROFESSOR HOOVER. (III)

Course 1A is elective for those who are taking, or who have taken, Course 1. It is designed to prepare such students for further work in chemistry and in other sciences.

2. **INORGANIC CHEMISTRY.** A somewhat advanced course, designed to give an appreciation of the importance of the metals in daily life, and to serve as a preparation for further study. The laboratory work consists largely of inorganic preparations and experiments illustrating the general principles of chemistry. Two lectures or class discussions, one supplementary lecture or discussion at the discretion of the instructor, with one three-hour laboratory period, counting as three hours. Lectures, *Mon., Wed., at 9.* Laboratory, *Mon., 1-4, or Tu., 1-4.* Supplementary lecture, *Fri., at 9.* 3 J. H. ASSOCIATE PROFESSOR HILL. (XII)

Course 2 is elective for students who have received credit for chemistry on admission. Other students who have pursued a course in chemistry in a secondary school may elect Course 2, provided they submit a satisfactory laboratory note-book and pass an examination to be arranged in consultation with the department of chemistry on or before the first Saturday of the college year. Students admitted to this course may be asked to change to Course 1 if their preparation does not seem to justify their continuing in an advanced course.

3. QUALITATIVE ANALYSIS. A laboratory course in basic and acid analysis, with lectures and class discussions on the application of the principles of theoretical chemistry to qualitative analysis. The course consists of one lecture and two three-hour laboratory periods, counting as three hours. Lecture, *Tu.*, at 10. Laboratory, *Tu.*, *Th.*, 1-4. CHEM. LAB. MR. CAVELTI. (IX)

Course 3 is elective for those who have taken Course 2, or Courses 1 and 1A.

4. ELEMENTARY ORGANIC CHEMISTRY. A general descriptive course in the chemistry of the compounds of carbon, emphasizing the practical applications. Combined with Course 1 or Course 2 it affords the student not specializing in chemistry an appreciation of the main facts of this science. It also forms a foundation for further work in organic chemistry and for the study of medicine. Two lectures or class discussions and one four-hour laboratory period, counting as three hours. Lectures, *Mon.*, *Wed.*, at 1. Laboratory, *Mon.*, 2-6, or *Wed.*, 2-6. 3 J. H. ASSOCIATE PROFESSOR HILL. (V)

Course 4 is elective for those who have taken Course 1 or Course 2.

5. ELEMENTARY QUANTITATIVE ANALYSIS. A laboratory course in gravimetric and volumetric analysis, with lectures and class discussions. The course consists of one lecture and two three-hour laboratory periods, counting as three hours. Lecture, *Tu.*, at 1. Laboratory, *Wed.*, *Fri.*, 1-4. CHEM. LAB. MR. CAVELTI. (XI)

Course 5 is elective for those who have taken Course 3.

[6. INDUSTRIAL CHEMISTRY. Lectures, collateral reading, and occasional excursions. The purpose of this course is to give a general idea of the chemical processes involved in modern industry, and of the principles underlying chemical manufacture. In a few processes the details of manufacture are studied. *Three times a week.* PROFESSOR HOOVER.]

Course 6 is elective for those who take, or who have taken, Course 3. It is omitted in 1921-22.

7. PHYSICAL CHEMISTRY. A course in elementary theoretical and physical chemistry. There are two lectures and one laboratory period or discussion each week, counting as three hours. *Tu., Th., Sat., at 11.* J. H. PROFESSOR HOOVER. (X)

Course 7 is elective for those who have taken, or who are taking, Courses 3 and 5. It is advisable, though not necessary, to have taken, or to be taking, Course 7 in mathematics.

8. ADVANCED ORGANIC CHEMISTRY. A course consisting of lectures, recitations, and laboratory exercises. The lecture work deals with the advances in the fields of theoretical and synthetic organic chemistry. The laboratory work consists of important syntheses, not studied in Course 4, combustion analysis, and a group of experiments chosen to illustrate research methods. The course counts as three hours. Lectures, *Mon., Wed., at 3, and four hours in the laboratory.* CHEM. LAB. ASSOCIATE PROFESSOR HILL.

Course 8 is elective for those who have taken Course 4, and who are taking, or have taken, Course 5.

9. ADVANCED INORGANIC CHEMISTRY. Lectures, assigned readings, reports, and class discussions on systematic inorganic chemistry. The first topic considered is the history of chemistry. This is followed by a descriptive study of the rarer elements and compounds, and a review of the chemistry of the more common elements. The fundamental laws and theories of inorganic chemistry are introduced, and topics such as colloids are discussed at length. Special emphasis is placed upon the application of modern physical-chemical theories to



the relationships and molecular structure of inorganic compounds. *Mon., Wed., Fri., at 8.* 3 J. H. PROFESSOR HOOVER. (I)

Course 9 is elective for those who have taken Courses 3 and 4.

10. ADVANCED QUANTITATIVE ANALYSIS. A course in modern industrial quantitative analysis. Selected methods for the analysis of ferrous and non-ferrous alloys, minerals and ores, soaps, oils, fats, waxes, and illuminating and flue gases. During the latter part of the year the laboratory work is along lines selected by the individual students, and the lecture material deals with metallography and physical testing. Lectures, *Mon., at 1.* Laboratory, *Th., Fri., 1-5.* CHEM. LAB. MR. CAVELTI. (V)

Course 10 is elective for those who have taken Courses 4 and 5.

[11. PHYSIOLOGICAL CHEMISTRY. Lectures, recitations, and laboratory work. The following subjects will be considered: Enzymes, fats, carbohydrates, proteins, digestion, absorption, nutrition, blood, milk, composition and analysis of urine. *Three times a week.*]

Course 11 is elective for those who have taken, or are taking, Course 4 in chemistry and Course 1 in biology. It is omitted in 1921-22.

\*12. INORGANIC RESEARCH. Investigation of special problems in analytical and physical chemistry. PROFESSOR HOOVER.

Course 12 is elective, with the permission of the instructor, for graduate students, and for those who have taken Courses 4 and 7.

\*13. ORGANIC RESEARCH. Investigation of special problems in synthetic, theoretical, and applied organic chemistry. ASSOCIATE PROFESSOR HILL.

Course 13 is elective, with the permission of the instructor, for graduate students, and for those who have taken Course 8.

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## GEOLOGY.

ASSOCIATE PROFESSOR FOYE.

1. PHYSIOGRAPHY. The study of the earth's surface, and the forces which have moulded it into its present form. Lec-

tures and laboratory work. *Mon., Wed., Fri., at 10 (first half-year).* 8 J. H. (III)

Course 1 is elective for Freshmen.

2. STRUCTURAL GEOLOGY. The minerals and rocks forming the earth's crust, their structure, and the forces which have formed and altered them. Lectures, laboratory, and field work. *Mon., Wed., Fri., at 10 (second half-year).* 8 J. H.

Course 2 is elective for those who have taken Course 1, and who take, or have taken, Chemistry 1 or 2. (III)

3. HISTORICAL GEOLOGY. The history of the earth as revealed in the sedimentary rocks. Lectures and laboratory work. *Mon., Wed., Fri., at 11 (first half-year).* 10 J. H. (IV)

Course 3 is elective for those who have taken Courses 1 and 2.

4. REGIONAL GEOLOGY OF THE UNITED STATES. The geography, historical and economic geology of limited portions of the United States. *Mon., Wed., Fri., at 11 (second half-year).* 10 J. H. (IV)

Course 4 is elective for those who have taken Courses 1-3.

[5. METEOROLOGY. A course designed to give a knowledge of the laws controlling weather and climate. Lectures and laboratory work. *Three times a week (first half-year).*]

Course 5 is elective for those who have had, in school or college, a course each in chemistry and physics. It is given in alternate years with Courses 6 and 7, and is omitted in 1921-22.

6. CRYSTALLOGRAPHY AND DETERMINATIVE MINERALOGY. A study of the crystallography and chemistry of the commoner minerals. *Mon., Wed., Fri., at 2, and four laboratory hours, counting as four hours (first half-year).* 10 J. H. (VI)

Course 6 is elective for those who have had solid geometry, and a college course in chemistry.

7. DESCRIPTIVE MINERALOGY. The properties, occurrences, and uses of the commoner minerals. *Mon., Wed., Fri., at 2, and four laboratory hours, counting as four hours (second half-year).* 10 J. H. (VI)

Course 7 is elective for those who have taken Course 6. Students who elect this course are strongly advised to take also Courses 1 and 2, if they have not already done so.

\*8. GEOLOGY SEMINARY. Lectures, readings, and reports on field and laboratory problems in structural geology. *Mon., Wed., Fri., at 9 (second half-year).* J. H. (II)

Course 8 is elective, with the permission of the instructor, for those who have taken Courses 1, 2, 3, and 4.

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## BIOLOGY.

PROFESSOR SCHNEIDER; ASSOCIATE PROFESSORS GOODRICH AND WOODS.

1. GENERAL BIOLOGY. An introduction to the biological sciences. This course, touching briefly upon the more important problems of modern biology, includes a study of a few representative plant and animal types, with special emphasis on the structure and physiology of the frog. SECTION 1, *Tu., Th., at 10*; SECTION 2, *Tu., Th., at 11, with a supplementary hour at the discretion of the instructor, and one three-hour laboratory period, the course counting as three hours.* 8 J. H. ASSOCIATE PROFESSOR WOODS. (XVII)

Course 1 is elective for Freshmen. It is a pre-requisite for advanced courses in the department, and is necessary for students preparing to enter medical colleges.

2. BOTANY. A general course, dealing principally with the comparative structure of the lower plants (Thallophytes, Bryophytes, and Pteridophytes). *Tu., Th., at 8, and one three-hour laboratory period (first half-year), counting as three hours.* 8 J. H. ASSOCIATE PROFESSOR WOODS. (VII)

Course 2 is elective for those who have taken Course 1.

3. SYSTEMATIC BOTANY. A continuation of course 2, dealing with the structure, classification, and physiology of the seed-plants (Spermatophytes). A large part of the laboratory work is devoted to flower analysis and the preparation of an herbarium. *Tu., Th., at 8, and one three-hour laboratory period (second half year), counting as three hours.* 8 J. H. ASSOCIATE PROFESSOR WOODS. (VII)

\*12. BACTERIOLOGY. A general course in bacteriology. The laboratory covers the following subjects: Apparatus, culture media and methods of preparation, methods of sterilization, microscopic characteristic of cultures of bacteria, methods of diagnosis and of obtaining pure cultures, bacteriological investigations of air, soil, water, and milk. *Tu., Th., at 1, and five hours in the laboratory, counting as four hours.* 8 J. H. and 24 S. L. PROFESSOR SCHNEIDER. (XI)

Course 12 is elective, with the permission of the instructor, for those who have taken Course 1 and a course in chemistry. Course 5 is also recommended.

13. HISTOLOGY AND MICROSCOPIC ANATOMY. A laboratory course based on a study of mammalian and human tissues. The technique of preparation of microscopic slides is taught. Each student prepares for himself a representative permanent collection of microscopic slides of tissues. *Seven and one-half laboratory hours (first half-year).* J. H. ASSOCIATE PROFESSOR GOODRICH.

Course 13 is elective for those who have taken Course 7, and for others with the permission of the instructor.

14. EMBRYOLOGY. A laboratory course which includes a study of the formation of the germ cells, the development of the frog and the chick, and comparisons in human embryology. General problems of development are emphasized. Lectures at specially arranged hours accompany the course. *Seven and one-half hours (second half year).* 5 J. H. ASSOCIATE PROFESSOR GOODRICH.

Course 14 is elective for those who have taken Course 13, and for others with the permission of the instructor.

\*15. ADVANCED EMBRYOLOGY. Special problems in embryology and related topics. Laboratory work and assigned readings. *The number of hours to be arranged with the instructor.* 5 J. H. ASSOCIATE PROFESSOR GOODRICH.

Course 15 is elective, with the permission of the instructor, for those who have taken Course 14.

#### SCHOLARSHIP IN BIOLOGY.

A scholarship was founded in 1919 by action of the Board of Trustees of Wesleyan University to support work at the Marine

Biological Laboratory at Woods Hole, Massachusetts. The expense in any one year is not to exceed \$125. This may be used to pay complete expenses for one student or in part for two students. Summer courses in invertebrate zoölogy, botany, embryology, physiology, and protozoölogy, and opportunities for research work are offered at the laboratory. The scholarship is open to all taking work in biology and application should be made to some member of the department. It was awarded in 1921 to Stephen Culver Williams, class of 1922, and Noah Stanley Lincoln, class of 1923.

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## PHYSICAL EDUCATION.

PROFESSOR FAUVER.

1. PHYSICAL TRAINING — FRESHMAN COURSE. During the first term, students are required to elect work in football, track, or tennis. In the second term, from Thanksgiving to Christmas, all are required to take systematic gymnastic work. After Christmas, all who have passed a satisfactory medical examination and certain physical efficiency tests may substitute basket-ball, handball, squash, swimming, etc., for the gymnastic work. During the third term students elect work out of doors as in the first term. *Three times a week, the hours to be announced.*

Course 1 is required of Freshmen. It counts as one hour toward graduation, the quota for which is increased to 62 hours for those who are required to take Courses 1 and 2 in physical education.

2. PHYSICAL TRAINING—SOPHOMORE COURSE. During the fall and spring Sophomores are required to elect work in football, baseball, track, tennis, or swimming. During the winter they are required to elect work in advanced gymnastics, basket-ball, handball, squash, swimming, boxing, wrestling, or track. *Three times a week, the hours to be announced.*

Course 2 is required of Sophomores. It counts as one hour toward graduation, the quota for which is increased to 62 hours for those who are required to take Courses 1 and 2 in physical education.

3. **PHYSICAL TRAINING—JUNIOR COURSE.** A continuation of Course 2. *Three times a week, the hours to be announced.*

Course 3 is required of Juniors. It counts as one hour toward graduation, the quota for which is increased to 63 hours for those who are required to take Courses 1-3 in physical education. No student will receive credit for this course until he has successfully completed at least two seasons in tennis and one season in handball or squash, and has passed the swimming test.

4. **THEORY AND PRACTICE.** The aim of the course is to acquaint the members of the class with the general principles underlying physical education, and their application in the practical work of teaching or coaching. The work of the course is divided into two parts: (a) Theory. A partial course in descriptive anatomy, including the study of bones, joints, and muscles, with emphasis upon their relation to gymnastic exercises and bodily posture; the effect of various exercises upon the tissues of the body, etc.; the theory of play underlying the common intercollegiate sports; methods of coaching, etc. (b) Practice. Advanced gymnastics with and without apparatus; boxing; wrestling; instruction in the playing of intercollegiate sports, such as basket ball, foot ball, track, handball, swimming, etc. *Mon., Wed., Fri., at 9, counting as two hours a week for the year.* GYMNASIUM. (II)

Course 4 is elective for Juniors who have taken Physics 1, Chemistry 1, Biology 1 and 8. Those who take the course are strongly urged to take the course in bacteriology. This course is intended especially for those who intend to teach.

## DAILY PROGRAM.



The order of lectures and recitations is set forth in the table given on pages 112 and 113. Arabic numerals following the names of the several studies refer to the numbers of the courses as enumerated in the foregoing statement of courses of instruction. Numerals in parentheses, following the names of certain studies, indicate the sections into which the classes are divided.

# DAILY PROGRAM, 1921-1922.

The figures in parentheses indicate sections.

Hour	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8.	Latin 11 Greek 1, 2 German 1 (1) German 2 (1) French 4 English 1 (1, 2) English 4 History 9 (1) Psychology 4 Ethics 1 Mathematics 1 (1) Chemistry 9	Latin 9 Latin 12 Greek B German 2 (3) German 6 French 1 (1) French 2 (1) Italian 3 English 6 (1) History 8 Economics 2 Psychology 2 Mathematics 1 (4) Mathematics 4 (2) Physics 3, 4 Biology 2, 3 Biology 5	Latin 11 Greek 1, 2 German 1 (1) German 2 (1) French 4 English 1 (1, 2) English 4 History 9 (1) Psychology 4 Ethics 1 Mathematics 1 (1) Chemistry 9	Latin 9 Latin 12 Greek B German 2 (3) German 6 French 1 (1) French 2 (1) English 6 (1) History 8 Economics 2 Psychology 2 Mathematics 1 (4) Mathematics 4 (2) Physics 3, 4 Biology 2, 3 Biology 5	Latin 11 Greek 1 German 1 (1) German 2 (1) French 4 English 1 (1, 2) English 4 History 9 (1) Psychology 4 Ethics 1 Mathematics 1 (1) Chemistry 9	Latin 9 Latin 12 German 2 (3) German 6 French 1 (1) French 2 (1) English 6 (1) History 8 Economics 2 Psychology 2 Mathematics 1 (4) Mathematics 4 (2) Physics 3, 4
9.	Latin 15 Greek 5, 6 German 3 French 1 (2) French 3 (1) Spanish 2 (1) English 22 (7) English 22 Economics 1 (1, 2) Economics 7 Philosophy 2, 3 Mathematics 1 (2) Physics 7 Chemistry 2 Geology 8 Phys. Education 4	German 1 (3) German 5 French 2 (2) French 5 English 6 (2) Public Speaking 1 (1) History 3 Economics 4 Psychology 4 Mathematics 1 (5) Astronomy 5 Physics 1 Chemistry 1 Biology 8	Greek 5, 6 German 3 French 1 (2) French 3 (1) Spanish 2 (1) English 1 (7) English 22 Public Speaking 1 (3) Economics 4 Philosophy 5 Mathematics 1 (5) Astronomy 5 Physics 7 Chemistry 1 Biology 8 Phys. Education 4	German 1 (3) German 5 French 2 (2) French 5 English 6 (2) Public Speaking 2 (1) History 3 Economics 4 Philosophy 5 Mathematics 1 (5) Astronomy 5 Physics 7 Chemistry 1 Biology 8 Phys. Education 4	Greek 5, 6 German 3 French 1 (2) French 3 (1) Spanish 2 (1) English 1 (7) English 22 Economics 1 (1, 2) Economics 7 Philosophy 2, 3 Mathematics 1 (2) Astronomy 2 Physics 7 Chemistry 2 Geology 8 Phys. Education 4	German 1 (3) German 5 French 2 (2) English 6 (2) History 3 Economics 4 Mathematics 1 (5) Physics 1 Chemistry 1
10.	Latin 1 Spanish 1 English 16 History 5 Economics 8 Ethics 3 Mathematics 1 (3)	Latin 2, 3 Latin 9 German 9 French 2 (3) French 3 (2) French 8, 9 English 6 (3) Public Speaking 1 (2)	Italian 1 Spanish 1 German 9 English 16 Public Speaking 1 (4) History 5 Economics 8 Ethics 3	Latin 2, 3 Latin 9 German 9 French 2 (3) French 3 (2) French 8, 9 English 6 (3) Economics 3 (1)	Italian 1 Spanish 1 German 9 English 16 History 5 Economics 8 Ethics 3 Mathematics 1 (3)	Latin 2, 3 Latin 9 German 9 French 2 (3) French 3 (2) English 6 (3) Economics 3 (1) Ethics 4 Mathematics 1 (6)



# DAILY PROGRAM, 1921-1922—(Continued).

Hour	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
10. Con.	Mathematics 7 Astronomy 3 Chemistry 1A Geology 1, 2	Economics 3 (1) Psychology 6 Ethics 4 Mathematics 1 (6) Mathematics 6, 8 Chemistry 3 Biology 1 (1)	Mathematics 1 (3) Mathematics 7 Astronomy 3 Chemistry 1A Geology 1, 2	Psychology 6 Ethics 4 Mathematics 1 (6) Mathematics 6, 8 Biology 1 (1)	Mathematics 7 Astronomy 3 Chemistry 1A Geology 1, 2	Mathematics 6, 8 Biology 1 (1)
11.	Latin 1 (1) Latin 10 German 4, 8 French 1 (3, 4) English 1 (3, 4) Economics 5 (1, 2) Philosophy 1 (1, 2) Psychology 1 (1, 2) Mathematics 4 (1) Geology 3, 4	Latin 1 (2) German 1 (4) English 10 History 9 (2) Economics 3 (2) Philosophy 1 (3) Physics 1 Chemistry 7 Biology 1 (2)	Latin 1 (1) Greek 10, 11 German 4, 8 French 1 (3, 4) English 1 (3, 4) Economics 5 (1, 2) Philosophy 1 (1, 2) Psychology 1 (1, 2) Mathematics 4 (1) Geology 3, 4	Latin 1 (2) German 1 (4) English 10 Public Speaking 2 (2) History 9 (2) Economics 3 (2) Philosophy 1 (3) Physics 1 Chemistry 7 Biology 1 (2)	Latin 1 (1) Latin 10 Greek 10, 11 German 4, 8 French 1 (3, 4) English 20, 21 Economics 5 (1, 2) Philosophy 1 (1, 2) Psychology 1 (1, 2) Mathematics 4 (1) Geology 3, 4	Latin 1 (2) German 1 (4) English 7 History 9 (2) Economics 3 (2) Philosophy 1 (3) Physics 1 Chemistry 7 Biology 1 (2)
1.	Greek A German 1 (2) German 2 (2) English 1 (5, 6) English 19 History 7 Mathematics 11, 12 Astronomy 1 Chemistry 4 Biology 11	Public Speaking 3 (1) History 7 Chemistry 5 Biology 12	Greek A German 1 (2) German 2 (2) English 1 (5, 6) English 19 History 7 Mathematics 11, 12 Astronomy 1 Chemistry 4 Biology 11	Public Speaking 2 (3) History 1 Biology 12	Greek A German 1 (2) German 2 (2) English 1 (5, 6) English 19 History 7 Mathematics 11, 12 Astronomy 1 Biology 11	
2.	French 2 (4) Economics 1 (3, 4) Economics 9 Geology 6, 7 Biology 8	Greek A French 7 English 3 Public Speaking 3 (2)	French 2 (4) Public Speaking 1 (5) Economics 1 (3, 4) Economics 9 Geology 6, 7	French 6 English 3 Public Speaking 2 (4)	French 2 (4) Economics 1 (3, 4) Economics 9 Geology 6, 7	
3.	Chemistry 8	French 7	Chemistry 8	French 6		

## EXAMINATION GROUPS.

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No student is allowed to take more than one course in any of these groups, with the exception of those which are not given in the same half-year or on the same day. The following courses are not assigned to any group, and may be elected without limitation: Greek 3, 4; Hebrew; Public Speaking; History 6; Economics 10; Philosophy 6; Psychology 8; Physics 2, 8, 12, 13, 14; Chemistry 8, 12, 13; Biology 9, 10, 13, 14, 15; Physical Education 1, 2, 3.

**I.**

Latin 11  
Greek 1  
Greek 2  
French 4  
English 4  
History 9  
Psychology 4  
Ethics 1  
Chemistry 9

**II.**

Latin 15  
Greek 5, 6  
German 3  
Spanish 2  
English 22  
Economics 1  
Economics 7  
Philosophy 2, 3  
Astronomy 2  
Physics 7  
Geology 8  
Biology 6, 7  
Phys. Education 4

**III.**

Italian 1  
Spanish 1  
English 16  
History 5  
Economics 8  
Ethics 3  
Mathematics 7  
Astronomy 3  
Chemistry 1A  
Geology 1, 2

**IV.**

Latin 10  
Greek 10, 11  
German 4  
German 8  
English 20, 21  
Economics 5  
Mathematics 14  
Geology 3, 4

**V.**

Greek A  
English 19

**History 7**

Mathematics 11, 12  
Astronomy 1  
Chemistry 4  
Chemistry 10  
Biology 11

**VI.**

English 1  
Economics 9  
Geology 6, 7

**VII.**

Latin 9, 12  
Greek B  
German 6  
Italian 3  
History 8  
Economics 2  
Psychology 2  
Physics 3, 4  
Biology 2, 3  
Biology 5

<b>VIII.</b>	Economics 3 Physics 1 Chemistry 7	<b>XIV.</b>
German 5 French 5 History 3 Economics 4 Philosophy 4 Psychology 5 Astronomy 5 Physics 11 Biology 8	<b>XI.</b>	Mathematics 1 Mathematics 2, 3 Mathematics 4
<b>IX.</b>	History 1 Chemistry 5 Biology 12	<b>XV.</b>
Latin 2, 3 German 9 French 8, 9 Psychology 6 Ethics 4 Mathematics 6, 8 Chemistry 3	<b>XII.</b>	<b>XVI.</b>
<b>X.</b>	French 6, 7 English 3 Philosophy 5 Chemistry 1 Chemistry 2	English 6
Latin 1 English 7, 10	<b>XIII.</b>	<b>XVII.</b>
	French 1 French 2 French 3	Biology 1
		<b>XVIII.</b>
		Philosophy 1 Psychology 1

## REQUIREMENTS FOR GRADUATION.

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Physical education, three hours a week (counting one hour) for the year, is required of the three lower classes, beginning with the class of 1923. Consequently the requirement for graduation in the class of 1922 is *sixty-one hours*, in the class of 1923 and thereafter, *sixty-three hours*.

Course 1 in English Language (three hours) is required of all students.

### I. GENERALIZATION (FRESHMAN AND SOPHOMORE YEARS).

In order to lay a broad foundation for the more concentrated work of the later years of the course, students are required to take in the first two years, in addition to English Language 1, *nine* hours each from three groups of studies: (1) languages, (2) philosophy and social sciences, (3) mathematics and natural sciences. The specific courses which may be elected are as follows:

Group 1. Nine hours from courses in Latin, Greek, German, Romance languages.

Group 2. Nine hours from History 1, History 9 (American Government), Economics 1, Philosophy 1 and Psychology 1 (making together a full year course), Ethics 1, and English 6 or 7.

Group 3. Nine hours from Mathematics, Astronomy 1, Physics 1, Chemistry 1 or 2, Geology 1 and 2, and Biology 1.

On presentation of reasons satisfactory to the Administration Committee, a student may postpone three hours, in exceptional cases six hours, of his generalization work until his Junior year.

Certain courses from these three groups are specifically required of candidates for the three bachelor's degrees, as follows:

**BACHELOR OF ARTS.** Group 1: Latin 1 or Greek 1; German 1 and 2, or French 1 and 2, unless presented for admission. (A student who elects both Latin 1 and Greek 1, or who elects Greek A, Greek B, and Greek 1, is required to take only one year of a modern language.)

**BACHELOR OF PHILOSOPHY.** Group 1: German 1 and 2, and French 1 and 2, unless presented for admission. Group 2: Philosophy 1 and Psychology 1; either History 1 or 9; Economics 1. Group 3: A course in mathematics, three hours for the year, unless an equivalent of advanced mathematics was presented for admission.

**BACHELOR OF SCIENCE.** Group 1: German 1 and 2, and French 1 and 2, unless presented for admission. Group 3: A course in mathematics, three hours for the year; Physics 1 and Chemistry 1, unless one or both have been presented for admission. (If a student has presented elementary chemistry for admission, he must take Physics 1 in college; if he has presented elementary physics, he must take Chemistry 1; if he has presented both, he may have his choice between Physics 1 and Chemistry 2.)

Required courses must be taken in the first year in which the student is eligible for admission to them, except that a candidate for the B. S. degree who has received credit for admission in both physics and chemistry may postpone to the Sophomore year meeting the requirement of either Physics 1 or Chemistry 2, in order to elect the introductory course in another department of science.

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#### REQUIREMENTS FOR CLASS OF 1922.

In place of the above, members of the class of 1922 are held to the requirements of the former group system. (See Catalogue for 1919-20, p. 110.)

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#### II. CONCENTRATION (JUNIOR AND SENIOR YEARS).

The program for the concentration group may be arranged at the beginning of the Sophomore year, and must be made up not later than the beginning of the Junior year by the student

in consultation with the senior professor of the department in which the major work is to be done, and with the approval of the Dean.

A student must elect a concentration group of *fifteen* hours' work, distributed in not to exceed three departments, and including no introductory course. (In addition to courses numbered A, B, or 1 in each department, German 2, French 2, History 9, Mathematics 2, 3 and 4, Physics 2, Geology 2, and Chemistry 1A and 2 shall be considered introductory courses.) A course whose content brings it about equally within the scope of two or more departments may, by agreement of the instructors concerned, be listed under each department, and considered for the purpose of this regulation as a course belonging to any department under which it is listed.

Of the fifteen hours, at least *nine* must be in the major department, unless the department does not offer sufficient hours in addition to the introductory course, in which case the concentration group may include four departments instead of three.

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#### QUOTA OF STUDIES.

The quota of studies is from fifteen to eighteen hours a week, in addition to the required work in physical education. A Senior may be allowed a minimum quota of twelve hours a week, if he does not need more to graduate. But Seniors are held to pass in all the courses they are taking at the time of the final examinations, even though in excess of the required quota.

Freshmen are strongly advised not to take more than fifteen hours, in addition to physical education, unless they are taking Greek A or B.

LECTURES, 1920-1921.

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## THE GEORGE SLOCUM BENNETT LECTURESHIP FUND.

A gift of twenty-five thousand dollars from Mrs. Ellen N. Bennett, Mrs. Martha Bennett Jones, R. Nelson Bennett, and Z. Platt Bennett, of Wilkes-Barre, Pa., has been combined with a gift of ten thousand dollars in 1907 from George Slocum Bennett, of the class of 1864, into a fund to be known as the George Slocum Bennett Lectureship Fund, in memory of Mr. Bennett, who died January 2, 1910. The income is to be used "in defraying the expenses of providing for visiting lecturers, preachers, and other speakers supplemental to the college Faculty."

In 1920-21 Dean Shailer Mathews, D.D., LL.D., of the University of Chicago, gave a course of six lectures in March on: *The Validity of American Ideals.*

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## UNIVERSITY ADDRESSES.

The following speakers addressed the College Body during the year 1920-21:

Aaron Sherman Watkins, D.D., Candidate for the Presidency on the Prohibition Ticket: *The Prohibition Party Platform.*

Sir William Ramsay: *Wizards and the Apostles.*

Lieutenant Colonel Charles Wellington Furlong: *Turkey, the Cross-Ways of the World.*

Dr. Victor Andres Belannde, Peru: *Hispanic Culture and Ideals.*

Sherwood Eddy, Y. M. C. A. worker: *The World's Needs.*

Ambassador Ricci, Italy: *Dante and the World To-day.*

## MIDDLETOWN SCIENTIFIC ASSOCIATION.

The Middletown Scientific Association, founded in 1871, has a membership of about one hundred, taken partly from the college and partly from the town. Regular meetings are held on the second Tuesday of every month during the college year, in the lecture-room of the John Bell Scott Memorial. During 1920-21 the following addresses were given:

Professor Cady: Some War-time Scientific Devices and their Use in Time of Peace.

Associate Professor Hill: A World of Neglected Dimensions.

Associate Professor Foye: The Origin of Folded Mountains.

Professor Charles Schuchert, L.L.D., Yale University: The Making of Palaeographic Maps.

Associate Professor Woods: The Wings of Insects.

Ansel Alva Packard, Middletown Division of the Connecticut Power Company: Power from Mercury Vapor.

Professor Frank Schlesinger, Ph.D., Yale University: Astronomical Photography.

Dr. Lewis B. Allyn, Westfield McClure Laboratories: Purity and Progress in Foods.

Professor Walter Fenno Dearborn, Ph. D., M. D., '00, Harvard University: The Measurement of Intelligence.

Professor Horatio B. Williams, M.D., College of Physicians and Surgeons: Sound Ranging,—An Application of Laboratory Methods to Modern Warfare.

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THE CLASSICAL CLUB.

The Classical Club was founded in 1906 by about twenty of the students taking classical courses. Meetings are held once a month during the college year. The following address was given before the club in 1920-21:

Assistant Professor Humphrey: The Classics in England.

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LA SOCIÉTÉ FRANÇAISE.

A French club was founded in 1907 by a number of students taking courses in the department of Romance languages. In



the fall of 1909, the club was reorganized under the title of *La Société Française*, holding fortnightly meetings at the fraternity houses. The following address was given before the club in 1920-21:

Associate Professor Bussom: *Deux Aspects de la Civilisation Française.*

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#### DER DEUTSCHE VEREIN.

A club was organized October 23, 1909, by undergraduates for further practice in the German language and the study of German culture. Those undergraduates are eligible for active membership (the number this year is limited to fifteen) who are taking or have taken courses in German more advanced than Course II. Members of the Faculty and graduate students may be elected to honorary membership. Meetings are held semi-monthly in rooms in East Hall. Programs, arranged with the advice of the teaching staff in the department, include addresses by instructors in German in other institutions, papers by members, plays, etc. The following addresses were given in 1920-21:

Assistant Professor Stevens: *Zehn tausend Kilometer hinter der Front.*

Dr. Baerg: *Kriegserfahrungen.*

Professor Curtis: *Eine Bummelreise mit dem Balopticon.*

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#### THE RADIO CLUB.

The Radio Club was founded in 1914 by instructors and advanced students in the department of physics. All students taking courses in physics who have completed Course VII are eligible for active membership. Meetings are held every two weeks in the Scott Laboratory for the discussion of matters of interest in wireless telegraphy and for practice in the use of apparatus. The following addresses were delivered before the club in 1920-21:

Edwin Carl Anderson, B.S.: *Multiple Timed Antennae.*

Professor Cady: *The Use of Quartz and Rochelle Salt Crystals in Wireless Fields.*

Assistant Professor Powers: Determination of Di-electric Constants of Dilute Solutions and Liquids by Means of the Hartley Circuit.

Tadashi Fujimoto, B.S.: The Theory of V-T Tubes and their Connections.

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#### THE WESTGATE CLUB.

The Westgate Club is named in honor of George Lewis Westgate, of the class of 1865, who, as Professor of History and Political Economy from 1880 to 1885, was the first head of the history department in Wesleyan University. The club was organized November 16, 1914, by ten students in the department of history. Those undergraduates are eligible for membership who are taking the seminary course, who are registered for a major in the department, or who are taking work in the department equivalent to a major. Several members of the Faculty have been elected to honorary membership. Meetings are held at convenient intervals, usually at the fraternity houses. The following addresses were delivered before the club in 1920-21:

Professor Dutcher: Presidential Elections.

Professor Hewitt: History of the Olympic Games.

George Henry Browne, M.A., Browne and Nichols School: The Movements of Booth after the Assassination of Lincoln.

Richard Ager Newhall, Ph.D., Yale University: The Pessimism of the Historian.

Assistant Professor Chanter: Experiences with the British Army in Mesopotamia during the War.

Associate Professor Bussoni: Changed Conditions in France since the War.

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#### THE ATWATER CLUB.

The Atwater Club, named in honor of the late Professor W. O. Atwater, was organized in 1916 by the advanced students in the department of chemistry. Undergraduates who are majoring in chemistry, and who have attained an average of grade B in the department, are eligible to membership. Graduate students and members of the Faculty may be

admitted to honorary membership by a three-fourths vote of the active members of the club. Meetings are held once a month, usually at the fraternity houses. The club has taken the lead in the organization of an alumni association of Wesleyan chemists. Besides papers by undergraduates, the following addresses were given in 1920-21:

Associate Professor Hill: Chemical Constitution and Physiological Properties.

Professor Schneider: Some Methods of Chemical Control in the Body.

George Byron Hogaboom: Manufacture of Electrolytic Plates for Engraving.

John Elmer Cavelti, M.S.: Antimony.

Victor Caryl Myers, Ph. D., Post-Graduate Medical College of New York: Chemical Changes in the Blood During Disease.

Professor Hoover: Chemistry and Civilization.

Associate Professor Hill: From Steers to Belts.

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#### THE DELTA ALPHA ARTS CLUB.

The Delta Alpha Arts Club was organized in November, 1916, with a membership limited to twelve. The purpose of the club is to afford an opportunity for acquiring a better knowledge and appreciation of art and music, comparing their tendencies with the contemporary developments in poetry and drama, to make such permanent collections of art prints and sheet music as may be possible, and to cultivate general interest in the fine arts. The following addresses were given before the club in 1920-21:

Dr. Baerg: Relations between Wagner and Nietzsche.

Assistant Professor Humphrey: Dunsany.

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#### THE FINE ARTS CLUB.

The Fine Arts Club was organized in 1919. Its aim is to stimulate interest in the fine arts among students at Wesleyan, its ultimate goal being the establishment of a Fine Arts Department in the college. Undergraduates to be eligible for

membership must show interest in the fine arts, and manifest a willingness to keep up such interest. There are a number of associate members from the Faculty and from the town. The club meets twice a month at the various fraternity houses, and has eight open meetings a year. The following addresses were given before the club in 1920-21:

Eugene Allen Noble, D.D., L. H. D., '91, Secretary of the Juilliard Foundation: Etchings and their Making.

Mr. Marsden Hartley: Aims of Modern Poetry.

Professor Harrington: Hymnology,— particularly its History in America.

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#### THE SHORT STORY CLUB

The Short Story Club was organized in 1914 by about ten men, chiefly of the Sophomore class, who were interested in writing. The membership is at present limited to fifteen, elected from the three upper classes. Occasionally outsiders are invited to address the club, but the programs consist usually of plays, poems, stories, and discussions of live literary topics, contributed by the members. The meetings occur bi-weekly.

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#### THE OXFORD CLUB.

The Oxford Club was organized in 1919 by a group of undergraduates who were preparing for religious work and who felt the need of a common bond. The purpose of the club is to maintain the interest of college men who are preparing for the ministry and to study problems relevant to Christian work. Any student who is definitely planning for work in the ministry, the Y. M. C. A., or some similar field is eligible for membership. The club meets at the various fraternity houses on the first Tuesday of each month. During 1920-21 the following addresses were given:

Associate Professor Woods: The Christian Religion and Modern Science.

Rev. Frank Flood German, D.D., Middletown, Conn.: The Business of a Minister.

Professor Hewitt: The Manuscripts of the New Testament.  
Rev. John Logan Davis, New Britain, Conn.: Methods of the Modern Minister.

Assistant Professor Chanter: Philosophy and Religion.

Rev. James Gordon Gilkey, D. D., Springfield, Mass.: The Call to Young Ministers by the New America.

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#### THE MEDICAL CLUB.

The Medical Club was organized in 1919. Membership is open to any student intending to study medicine. Meetings are held monthly, at the various fraternity houses. The following addresses were delivered before the club in 1920-21:

Professor Fauver: Requirements of the Various Medical Schools.

Associate Professor Goodrich: The Medical Phases of the Problem of Heredity and Environment.

Professor Schneider: The Value of Medical Schools to the Country and their Increased Demands upon New Applicants.

Assistant Professor Humphrey: The Freudian Theory of Psychology.

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#### THE ADAM SMITH CLUB.

The Adam Smith Club was organized in the fall of 1920 for the study and discussion of problems in the field of economics. The active membership consists of twenty students who are doing their major work in that subject. Graduate students and professors in the department are associate members. Monthly meetings are held for the consideration of some problem or question with economic implications. During the year 1920-21 the following addresses were given before the club:

Professor Tuttle: The Value of an Economics Club in a College Community.

Associate Professor Fisher: Methods of War Finance,—A Critical View. Causes of the Present Industrial Unrest.

Associate Professor Williamson: Rent in its Relation to Cost.

Associate Professor Hall: The Foreign Exchange Situation.

Dudley Harmon, '09, Assistant to the President of the Connecticut Manufacturers' Association: The Open Shop.

Patrick Francis O'Meara, President of the Connecticut Federation of Labor: The Closed Shop.

James E. Bennet, President of the Babcock Printing Press Manufacturing Company: The Labor Problem.

Harry Wellington Laidler, Ph.D., '07: Newer Aspects of Socialism.

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#### THE WILLIAM JAMES CLUB.

The William James Club was organized by undergraduates in the spring of 1921. Its purpose is to encourage interest in psychology. Undergraduate membership is limited to twenty men who are taking, or who have completed, three courses in psychology. Several members of the Faculty have been elected to membership. The club meets on the first Friday of each month from November to June. The following address was delivered before the club in 1920-21:

Professor Walter Fenno Dearborn, Ph.D., M.D., '00, Harvard University: Opportunities in Educational Psychology.

## GENERAL REGULATIONS.†

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### REGISTRATION.

Every student of the Junior, Sophomore, and Freshman classes is required to present to the Dean, not later than the last day of the final examinations, a list of the studies which he proposes to take the next college year. A fee of two dollars shall be paid by each student who fails to present such a list on or before that date. At the same time, members of the Junior class are required to present the list of courses approved by the respective instructors for concentration groups. The incoming class must present a list of studies not later than August 1, if admitted to college prior to that date; if not, within a reasonable time after admission.

Every student is required to register at the beginning of the first semester of each year. A fee of two dollars shall be paid by each student who does not register at the time appointed.

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### QUOTA OF STUDIES.

The requirement for graduation is sixty hours of work in addition to the required courses in physical education. Freshmen, Sophomores, and Juniors must take not less than fifteen nor more than eighteen hours of work per week, and Seniors not less than twelve nor more than eighteen hours per week. Freshmen are strongly advised to take not more than fifteen hours of work per week. No student will be allowed to take less than the minimum nor more than the maximum above specified, without special permission of the Administration Committee. A fee of ten dollars per hour for the year is charged for all courses taken in excess of eighteen hours per week.

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† Copies of the detailed Regulations may be obtained from the Dean.

## GRADES.

The general character of the work of each student in each study is indicated by his assignment to one of six grades, grade A denoting the highest excellence, and grades E and F, failure to pass.

A student will not be graduated unless he attain a grade of C— or higher in sixty per cent of the work required for graduation. (Beginning with the class of 1923 a student must pass with grade C— or higher in thirty-eight of the sixty-three hours required for graduation.)

The Dean sends to each student and to his parent or guardian, at the close of each semester, a report of his grades in all studies, together with a statement of class rank, and of conditions or deficiencies.

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## EXAMINATIONS.

Regular examinations are held at the end of the year, and during a specified period at the mid-year. Students on probation, and those who fail of promotion to the next higher class, are required to attend all exercises assigned them. The allowance of absences for others is as follows: in courses of two or more hours a week, one each semester for Freshmen and Sophomores, two for Juniors and Seniors. The allowance for honor students (those who have made an average for the past year of B or higher, and Freshmen who have made an average of B or higher in the first semester) is, for Freshmen and Sophomores, two; Juniors and Seniors, three. In a one-hour course not more than one absence is allowed in any semester. A student who has taken the allowed number of absences in any course, exclusive of those excused by the President or by the Committee on Athletics, must thereafter present an excuse for every absence taken in that course, and in case he have one unexcused absence or deficiency in addition to the number allowed, he is excluded from examination and must take a special examination later, paying a fee of five dollars. Unexcused absences from the first or the last exercise of a term in any study, or from classes immediately before or after the Thanksgiving holiday, will



res it in exclusion from examination in the subjects in question.

Special written examinations are held during the week commencing with the Tuesday before the beginning of the first semester for all who have been excluded or excused from any of the examinations of the previous year.

For the benefit of students who have not been examined in second semester subjects, special written examinations are held during the first few days after the Christmas recess, at times announced by the Dean. For these examinations application must be made before the close of the first term. A fee of five dollars is charged for each examination.

For the benefit of Seniors who have been excluded or excused from any of the examinations during the preceding part of the year, and for members of the lower classes who have been excused from such examinations, special written examinations are held during the first few days after the spring recess, provided that application for such examination is made by the candidate before the close of the second term.

A student who fails to pass a final examination in any study before that study is taken up by the next succeeding class is required, unless specially excused therefrom, to recite with that class, or, in the case of an elective study, to substitute some other elective therefor.

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## PROMOTION.

In order to be promoted from the Freshman class to the Sophomore class, a student must be free of entrance conditions, and must have, at the close of the fall special examinations, a record of passing in ten hours of college work, and he must have attained a grade of C— or higher in not less than six hours' work. In order to be promoted from the Sophomore to the Junior class, a student must have a record of passing in twenty-five hours of college work, and he must have attained a grade of C— or higher in not less than fifteen hours' work. In order to be promoted from the Junior to the Senior class, a student must have a record of passing in

forty-two hours of college work, and he must have attained a grade of C— or higher in not less than twenty-four hours' work.

Beginning with the class of 1923, the hours of courses passed and of higher grades required for promotion are as follows: Freshman to Sophomore, 12 and 7; Sophomore to Junior, 29 and 17; Junior to Senior, 46 and 27. A student who has failed of promotion at the beginning of the year may recover rank with his class at the beginning of the second semester if he has met the requirements for promotion to his class together with half of the additional requirements for promotion to the next higher class.

A student who fails of promotion with his class must make at least nine hours of grade C— or better in the year following such failure, if he is to be allowed to return to college.

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### ENTRANCE CONDITIONS.

Conditions for admission may be made up at the periods set for special examinations immediately after the Christmas and the Easter holidays (provided application for such examinations be made before the holidays to the Dean), or at the regular examinations set for admission at the beginning of the year following entrance to college. A fee of five dollars is charged for an examination in entrance conditions taken at any other time than those above specified. If any student shall fail to make up his conditions at or before the regular examination for admission at the beginning of the year following his admission to college, he will not be promoted to any higher class. No student is permitted to return to college for a third year who is conditioned in any of the required units for admission to college.

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### LEAVE OF ABSENCE.

A student who desires excuse from college exercises on account of absence from town must apply to the President for permission to be absent, and, unless the circumstances of the case render it impracticable, such permission must be obtained before the student's departure.

## PUBLIC WORSHIP.

Devotional services, which all students not excused for special reasons are required to attend, are held in Memorial Chapel every week-day at 7:50 A. M. and on Sunday at 11 A. M. The service on week-days is brief, consisting of Scripture lesson, hymn, and prayer. The Sunday service is of the same general nature as those in the churches, including a sermon or address.

A College Church was organized in 1916, under the name "The Church of Christ in Wesleyan University." Members of the student body or of the Faculty of Wesleyan University, and members of their families, may become members of this church by signing the following declaration: "Gratefully trusting in the love of God revealed by Jesus Christ, we aim to live as true children of the Heavenly Father. We unite in a Christian fellowship, mutually promising sympathy in Christian life and work."

Membership in this church is expected to continue only during the time of a person's connection with Wesleyan University. It does not involve the discontinuance of membership in any church with which a person may have been previously associated. It is, on the other hand, assumed that in most cases the members of the College Church will be at the same time members of other churches in Middletown or elsewhere.

The President of the University is pastor of the College Church; the clerk is Professor William North Rice. There is a Standing Committee which meets from time to time at the call of the pastor, for conference in regard to the work of the church. This committee consists of the pastor, one representative chosen by the Faculty members of the church, who acts as clerk of the church, and six representatives elected by the student members of the church. The standing committee the present year consists of President Shanklin, Professor Rice; C. B. Adams, C. E. Butler, R. L. Morgan, and A. P. Robertson of the Senior class; and C. J. Johnson and C. L. Smith of the Junior class.

Weekly contributions on the duplex-envelope plan are given for the expenses of the college Young Men's Christian

Association, and for the support of West China Union University, in Chengtu, China. The founder and president of that institution is Rev. Joseph Beech, D. D., '99, and several other Wesleyan graduates are members of its Faculty or of its Board of Governors. It is supported by the coöperation of most of the missionary organizations which are at work in West China.

The speakers at the services of 1920-21 were as follows:

Bishop Edwin Holt Hughes, LL.D., Boston, Mass.

Bishop Edward Campion Acheson, D. D., Middletown, Conn.

David Smith Spencer, D.D., Tokyo, Japan.

Irving Bacheller, L.H.D., Riverside, Conn.

David George Downey, D.D., Litt.D., LL.D., '84, New York City.

Bishop Wilbur Patterson Thirkield, LL.D., Mexico City.

Bishop Charles Wesley Burns, S. T. D., LL. D., Helena, Mont.

Bishop Charles Bayard Mitchell, D.D., LL.D., L.H.D., St. Paul, Minn.

Bishop Theodore Sommers Henderson, D.D., LL.D., '92, Detroit, Mich.

Bishop Ethelbert Talbot, D.D., LL.D., Bethlehem, Pa.

Bishop Luther Barton Wilson, D. D., LL. D., New York City.

James Taylor Dickinson, D.D., Rochester, N. Y.

Victor Garfield Mills, D.D., Baltimore, Md.

Christian Fichthorne Reisner, D.D., New York City.

Robert William Rogers, Ph. D., D. D., LL. D., Drew Theological Seminary, Madison, N. J.

James McGee, B.D., New Haven, Conn.

William Douglas Mackenzie, D.D., LL.D., President, Hartford Theological Seminary, Hartford, Conn.

David Brewer Eddy, D.D., Associate Secretary, American Board of Commissioners for Foreign Missions, Boston, Mass.

Raymond Lalor Forman, D.D., '07, New York City.

George Elliott, D.D., LL.D., Editor, *Methodist Review*, New York City.

William Ingraham Haven, D.D., LL.D., '77, General Secretary, American Bible Society, New York City.

- Thomas Sparks Cline, '01, Mt. Airy, Philadelphia, Pa.  
Bishop Chauncey Bunce Brewster, D.D., LL.D., Hartford, Conn.  
Fred Winslow Adams, D.D., Springfield, Mass.  
Charles Carroll Albertson, D.D., Brooklyn, N. Y.  
Charles Allen Dinsmore, D.D., School of Religion, Yale University, New Haven, Conn.  
George Clarke Peck, D.D., Baltimore, Md.  
Leon Kurtz Willman, D.D., '97, Wilkes-Barre, Pa.  
David Richard Porter, M.A., Executive Secretary, Student Department, International Y. M. C. A.  
Robert Watson, Ph.D., D.D., New York City.  
Bishop William Franklin Anderson, D.D., LL.D., Cincinnati, Ohio.  
Floyd Williams Tompkins, D.D., Philadelphia, Pa.
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## YOUNG MEN'S CHRISTIAN ASSOCIATION.

The purpose of the Wesleyan Young Men's Christian Association is to bring men into the Christian life and to develop them into strong and active Christians. Men are enlisted in Bible study; voluntary religious meetings are held weekly; boys' clubs, scout troops, and country Sunday schools are maintained under the leadership of college men; deputation teams visit the churches and preparatory schools to enlist young men for the Christian life; new students are aided in a great many ways; an employment bureau helps many needy students. These activities with others help to keep the men active in Christian work. The following is a list of the cabinet officers for 1921-22: President, C. E. Butler, '22; Vice-President, W. R. Kiernan, '22; Secretary-Treasurer, D. L. Green, '23; Bible Study, R. L. Morgan, '22; Missions, J. H. Wubben, '22; Meetings, A. P. Robertson, '22; Deputations, D. W. Adams, '22; Boys' Work, G. W. McKenzie, '23; Handbook, J. B. MacLean, '22; New Students, H. C. Buckingham, '23; Social, H. W. Leland, '23; Publicity, C. B. Adams, '22; Community Service, D. L. Starbuck, '22.

## STUDENT ORGANIZATIONS.

No student who has failed of promotion from the class below, no student who is on probation or under censure, no member of the Freshman class who has entrance conditions, no special student, no graduate student, and no Senior who is permitted to count the Senior year in fulfillment of the requirement of residence for the Master's degree, is allowed to take part, as a member of a University athletic team, in any athletic contest, or to appear in any public exhibition of any musical or dramatic organization, or to act as manager, assistant manager, or candidate for assistant manager of any athletic, musical, or dramatic organization; and any student whose college work is unsatisfactory at any time during the college year may be debarred from taking part in such a contest or exhibition. No member of the Freshman class is allowed to represent the University on athletic teams during the first half of the year.

No student is allowed to represent the college on more than two of the following organizations in any college year, either as member, manager, assistant manager, or candidate for assistant manager, nor on any two that are active at the same time of the year, without special permission from the Administration Committee: Football, Basket-ball, Baseball, Track Athletics, Tennis, Glee Club, Dramatics, Wesleyan *Argus*.

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## THE ATHLETIC COUNCIL.

In 1903 the Trustees authorized the organization of an Athletic Council, composed of three representatives each of the Faculty, the alumni, and the undergraduates. The Council has general supervision over the athletic affairs of the college, subject to certain veto powers retained by the Faculty. It administers eligibility rules, except as regards scholarship, approves schedules, ratifies the election of captains and managers, and controls the finances of the several departments of athletics, through a financial secretary. The officers of the Council for 1921-22 are: William A. Thompson, '97, President; Russell Leffard Morgan, '22, Vice-President; Professor Edgar Fauver, Secretary; Professor L. A. Howland, Financial Secretary.

### PUBLICATIONS ADVISORY BOARD.

The Wesleyan Undergraduate Publications Advisory Board was organized in 1916, to act in an advisory capacity for the undergraduate publications. It assumes no financial responsibility for any of the publications coming under its supervision. It determines the method of election of business managers and editors of the undergraduate publications and approves such elections, with power of veto. It has power to discharge any official who has proved himself incompetent after fair warning from the Board. It audits the accounts of the managers of the publications. The Board is composed of three representatives each from the Alumni and the Faculty, the president and the secretary-treasurer of the College Body, and the editor-in-chief and the business manager of the undergraduate publications. The officers of the Board for 1921-22 are as follows: President, Professor Curts; Vice-President, Professor Conley; Secretary, A. B. Haley, '07; Financial Secretary, Associate Professor Hill. The members of the Board are: Professor Curts; Professor Conley; Associate Professor Hill; A. B. Haley, '07, Secretary of the Alumni Council; F. T. Davis, '11; E. A. Silverman, '22, and C. C. Ring, '22, representing the *Argus*; C. W. Howard, '22, and A. M. Clark, '22, representing the *Olla Podrida*; A. P. Robertson, '22, President, and D. W. Adams, '22, Secretary-Treasurer of the College Body.

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### MUSIC AND DRAMATICS BOARD.

The Music and Dramatics Board was organized in 1921 to supervise the musical and dramatic organizations. Concerts and trips are arranged by the undergraduate manager, subject to the approval of the graduate manager (the secretary of the Alumni Council), who also audits all accounts.

The Board is composed of three members from the Faculty, three from the Alumni, and six from the undergraduates. Of these six, two, the president and the secretary-treasurer of the College Body, represent the undergraduates as a whole; while the leader and the manager of the Glee Club, and the president and the manager of the Paint and Powder Club

represent these two organizations, but the representatives of neither club attend meetings called to consider business concerning the other club only.

The officers of the Board for 1921-22 are: President, Professor Hewitt; Vice-President, A. P. Robertson, '22; Secretary-Treasurer, A. B. Haley, '07. The members of the Board are: Professor Hewitt, Professor Curts, Associate Professor Bussom; A. B. Haley, '07, Secretary of the Alumni Council, J. C. Beebe, '07, and H. V. Leonard, '12; A. P. Robertson, '22, and D. W. Adams, '22, President and Secretary-Treasurer, respectively, of the College Body; J. H. Boyd, '23, Leader, and D. C. Warlow, '23, Manager, representing the Glee Club; C. W. Howard, '22, President, and A. C. Gregg, '23, Manager, representing the Paint and Powder Club.

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### MEDICAL SUPERVISION.

As soon as possible after the opening of the college year all Freshmen and all upper-classmen entering Wesleyan for the first time are required to present themselves for physical examination. This examination is given by the college physician, who is a member of the Faculty. The examination consists of the recording of facts relating to the past health of the student which might bear upon his present condition, the taking and recording of a few statistics as to height, weight, lung capacity, etc., and a thorough medical examination of the eyes, nose, throat, lungs, and heart, and the surface of the body. In cases where it seems advisable, a laboratory examination is made of the blood and urine. The information gained from this examination is used as a basis for advice to the student as to his physical needs and the care of his body. In cases where it seems advisable, these examinations are repeated during the year.

The college physician has regular office hours for free consultation with students on matters of health. In case of sickness, treatment is given by the college physician, or the student is referred to the proper specialist. Part of the Foss House is used this year as an infirmary; there is also a well-equipped city hospital where students can be placed under



the care of efficient physicians or surgeons. There is an income from a special hospital fund, from which the expenses for care at the hospital of needy students can be met in whole or in part.

All students who, through illness, are unable to attend classes are required to see the college physician (sick call is at 7:50 each morning, Sunday at 10:00 o'clock), or to send for him, and no excuse from classes on account of sickness is granted without a certificate from the college physician.

## EXPENSES.

The annual charges in the Assistant Treasurer's bill are as follows:—

Tuition, - - - - -	\$140 00
Incidentals, use of library and reading-rooms, etc.,	60 00
Total, - - - - -	\$200 00

For the laboratory courses in physics, chemistry, and biology, fees are charged which vary with the nature of the course and with the number of exercises elected per week. The fee in Biology 2 and 3 is three dollars; in Physics 1 and in Biology 6, 7, 9, 13, 14, and 15, five dollars; in Biology 1 and 4, six dollars; in Biology 10, eight dollars; in Biology 12 and in Chemistry 1, 2, 7, and 10, ten dollars; in Chemistry 4, twelve dollars; in Chemistry 3, 5 and 8, fifteen dollars. The fee for each exercise per week in Chemistry 12 and 13 is two dollars and a half; in practical physics, five dollars. The fees of graduate students in laboratory courses are determined by the instructor in each case. Students electing Biology 12 and the chemistry courses named are required in addition to make a deposit, which is refunded at the close of the course after charges for breakage have been deducted.

A fee of ten dollars per hour for the year is charged for all courses taken in excess of eighteen hours per week.

A diploma fee of ten dollars is charged to each student at graduation.

A fee of five dollars is required of every candidate for the Master's degree before his course of study can be approved by the Committee on Graduate Instruction.

A diploma fee of ten dollars is charged to each graduate student upon promotion to the Master's degree.

The college bills are payable in advance for each semester on or before November tenth and March tenth, payment of the charge for tuition and incidentals, one hundred dollars, on the bills due November tenth, being required of all students before they are allowed to register. Unless the bill for any semester is paid, or payment thereof guaranteed, on the day appointed, the student is liable to exclusion from recitations.

Students who leave college on account of illness will be granted a pro rata rebate on the charge for tuition and incidentals and on laboratory fees. Those who leave for any other reason will be charged for tuition, incidentals, and laboratory fees to the end of the half of the semester in which they leave. No rebate will be granted on room rent for the semester unless the room is rented to another occupant.

No student can have an honorable dismissal, or certificate of progress in his studies, until his bills are paid.

A student who is absent from college on account of sickness, or for other cause, and who retains his place in his class, must pay the full college bills during his absence.

In order to reduce the expense of a college course, the college maintains a dining hall, where board may be obtained at a moderate rate. There is accommodation for about one hundred boarders. The college is responsible for the general management, the details being in charge of a matron who is responsible to a college officer. Bills are paid into the college treasury, and the college assumes all financial responsibility. The present charge is seven dollars a week.

The college fraternities maintain clubs which supply board to their members at various prices.

Other expenses incident to college life vary with the habits and circumstances of the student. They are not, of necessity, so great as to be burdensome to persons in moderate circumstances. Instances have been extremely rare in which students of good ability and health have been compelled to leave college for want of money. A special folder on expenses and methods of self-support will be sent on request to prospective students or their parents.

## DORMITORY ACCOMMODATIONS.

North College, at the end of College Row, contains one hundred and one rooms that are available for students. The rooms are lighted by electricity, heated by steam, and provided with single beds, mattresses, chiffoniers, and desks. The prices indicated below include the care of the room. An extra charge is made for heat, and also for electric light, the latter depending upon the electric current furnished. A diagram showing the location of rooms, with dimensions, also a price-list giving number of occupants allowed in each room, will be sent upon application to the Dean.

A new dormitory, providing thirty-four two-room suites, and eighteen three-room suites, has been built at the corner of Cross Street and Mount Vernon Street, on the southwest corner of the campus. The details given above concerning North College apply also to this building.

Furnished rooms are rented also in Observatory Hall at a lower rate than is the case in North College and the New Dormitory.

Rooms will not be assigned to students until they are formally admitted to college, or until they have presented informal statements from principals or others that give reason to believe that they will be admitted. When a room is assigned, a deposit of ten dollars (\$10) must be made by each applicant, or twenty dollars (\$20) in case a single applicant reserves a two-room or a three-room suite. Each student must sign a contract binding him to pay the rent of the room and to occupy the room in person through the entire college year. The deposit will be forfeited in case the student fails to return to college or in case he does not secure admission or does not enter; otherwise the deposit will be credited on his bill for room-rent. A further deposit of three dollars (\$3) is required for each key furnished to occupants.

Students are permitted to take lodgings in town, but the places in which they room or board are in all cases subject to the approval of the Faculty, and to inspection by the college physician. If any of the rooms in the college are thus

left vacant, the rent of such rooms may be charged to holders of free scholarships who room in town.

Application for rooms should be made to the Dean.

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## PRICES OF COLLEGE ROOMS.

All rooms furnished with bed, mattress, desk, and chiffonier. Care of rooms included.

### NORTH COLLEGE.

*(Plan will be furnished on request.)*

*For one occupant.*—Nos. 4, 8, 15, 16, 23, 24, 41, 42, 50, 51, 64, 65, 73, 74, 91, 92, 98, 99: rent \$70, heat \$20. Nos. 30, 35, 56, 59, 80, 85: rent \$80, heat \$25. Nos. 3, 7, 9, 29, 36, 46, 69, 79, 86, 95: rent \$85, heat \$25.

*For two occupants.*—Nos. 5-6, 31-32, 33-34, 57-58, 81-82, 83-84, 93-94, 96-97: rent \$140, heat \$30. Nos. 1-2, 13-14, 25-26, 27-28, 37-38, 39-40, 52-53, 54-55, 60-61, 62-63, 75-76, 77-78, 87-88, 89-90, 100-101: rent \$145, heat \$30. Nos. 10-11-12, 17-18-19, 20-21-22, 43-44-45, 47-48-49, 66-67-68, 70-71-72: rent \$165, heat \$36.

### NEW DORMITORY.

*(Plan will be furnished on request.)*

*For two occupants.*—Nos. A, B, 3, 4, 7, 8, 11, 12, 15, 16, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 41, 42, 45, 46, 49, 50, 53, 54: rent \$175, heat \$32.

Nos. C, D, 1, 2, 5, 6, 9, 10, 13, 14, 43, 44, 47, 48, 51, 52, 55, 56: rent \$200, heat \$42.

*For three occupants.*—Nos. C, D, 1, 2, 5, 6, 9, 10, 13, 14, 43, 44, 47, 48, 51, 52, 55, 56: rent \$255, heat \$42.

### OBSERVATORY HALL.

*(Plan will be furnished on request.)*

*For one occupant.*—No. 3: rent \$50, heat \$15. Nos. 1, 6, 7, 9, 10, 18: rent \$55, heat \$15. No. 11: rent \$65, heat \$20. No. 17: rent \$65, heat \$24.

*For two occupants.*—Nos. 15, 16: rent \$100, heat \$20. Nos. 12, 14: rent \$103, heat \$24. Nos. 2, 13, 19, 20: rent \$110, heat \$30.

## MATERIAL EQUIPMENT.

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### BUILDINGS ADDED SINCE 1900.

WILLBUR FISK HALL, opened in the summer of 1904, is occupied by the departments of language, literature, history, economics, and philosophy. It is of Portland brownstone and practically fireproof, 113 by 62 feet in dimensions, three stories in height above a lofty and well-lighted basement story, and cost one hundred and fourteen thousand dollars. It contains ten private studies for professors in charge of departments, fourteen lecture-rooms, seven commodious seminary rooms, and a well-appointed psychological laboratory.

In the planning and construction of the building careful attention was paid to matters of heating, lighting, ventilation, and drainage. It is believed that in dignity of external appearance, interior finish, convenience of arrangement, and adaptation at all points to the uses for which it is designed, it is a model college building.

THE JOHN BELL SCOTT MEMORIAL, a Physical Laboratory, was completed in 1904 at a cost of one hundred and eighteen thousand dollars. It is the gift of the late Charles Scott and of his son, Charles Scott, Jr., of the class of 1886, in memory of John Bell Scott, of the class of 1881, who died of disease contracted while serving as Chaplain of the U. S. Cruiser *St. Paul* during the Spanish-American war.

It is a beautiful and imposing building constructed of Harvard brick and Indiana limestone. Its main part has a frontage of 102 feet and a depth of 51 feet, and in the rear is an extension 50 by 30 feet. The building consists of basement, three stories, and attic, except that the third story is omitted in the extension. The main lecture-room contains nearly two hundred seats, and there is a second lecture-room which is used for small classes. The building contains twenty-two

rooms for experimental work, elementary and advanced, in addition to lecture and apparatus rooms, photographic dark-rooms, storerooms, offices, a library, and a room for draughting and computing. There is also a tower 4 by 6 feet in cross section, with a height of 54 feet in the clear, which can be used for experiments requiring great vertical extension. A wooden mast on the roof supports the wireless aerial, the rooms for radio experiments being in the basement.

The building is equipped with a complete system of wiring for the purpose of distributing to all points electric currents from the city mains as well as from the storage battery and generators in the basement. For the most part the interior is finished with exposed brick walls, painted a light tint, and with exposed floor timbers and pipe work.

THE NEW NORTH COLLEGE was occupied as a dormitory in January, 1908. It is of Portland brownstone, practically fireproof, 152 by 48½ feet in dimensions, four stories in height above a basement, and cost about \$135,000. The building contains one hundred and one rooms, arranged to satisfy varying demands. There are lavatories in the basement and on the third floor, supplied with tub and shower baths. The floor construction is of reinforced concrete throughout, and the stairs of iron and slate. The building is heated by steam from the central heating plant, and all rooms are lighted by electricity. All partitions in the basement, corridors, and stair-wells are of hollow terracotta brick.

SOUTH COLLEGE, which formerly was used for recitation rooms and studies, has been remodeled to serve as an administration building. The entrance to the building has been raised and a new flight of steps constructed as an approach. The old wooden staircases have been replaced by new ones of iron, with slate treads. The first floor is used as a storeroom by the library. The second and third floors contain private offices for the President and the Dean, a stenographer's room, a storeroom, and a spacious room, finished in quartered oak, used for Faculty meetings and as a general office. On the fourth floor are a number of two-room suites for office use. A chime of bells, manufactured by the firm of Mears and Stainbank, of London, England, and presented to the college

by the class of 1863, has been placed in the tower of this building, which has been remodelled for the purpose.

**SWIMMING POOL.** Through the generosity of a friend of the college, an addition has been built on the east end of the gymnasium in which a swimming pool has been constructed, measuring sixty by thirty feet. The cost of the structure was approximately forty thousand dollars. The pool was opened for use in January, 1914. A more detailed description will be found on page 148.

**A NEW DORMITORY** was opened for use in September, 1916. It is located on the southwest corner of the rear campus. It is a four-story building, of Portland brownstone, about 173 feet long and 40 feet wide, except at the wings, which are nearly 57 feet in width. The cost of the building was approximately \$140,000. It contains thirty-four two-room suites and eighteen suites of three rooms. There are lavatories on each floor of each section.

**A REMODELED CHAPEL.** Through the generosity of Mr. Ralph H. Ensign, of Simsbury, Conn., and his son, Joseph R. Ensign, great improvements were made in the interior of Memorial Chapel in the spring and summer of 1916. By taking out the upper floor, the whole interior of the building has been converted into a spacious hall, with galleries. The seating capacity of the building has thus been increased from about five hundred to approximately seven hundred and fifty. John Gribbel, M. A., of Philadelphia, President of the Board of Trustees, has presented the college with a fine new organ, built by the Austin Organ Company, of Hartford. By the gifts of other friends, elaborate windows in commemoration of five former presidents of the college have been placed in the chapel.

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## LIBRARY AND READING ROOMS.

**THE LIBRARY** in Rich Hall contains about one hundred and twenty-seven thousand volumes. The library is open every week-day of the college year from 8 A. M. to 10 P. M. Students are allowed direct access to the shelves.

The increase of the Library is provided for from the income of the following funds, amounting to \$214,915:—

THE ALUMNI LIBRARY FUND, \$39,425, the aggregate of numerous gifts from alumni and friends of the University.

THE HUNT LIBRARY FUND, \$33,882, established in 1898 by Rev. Albert Sanford Hunt (B. A., 1851, D. D., 1873), of Brooklyn, N. Y.

THE WILCOX LIBRARY FUND, \$22,588, established in 1904 by Mrs. Harriet H. Wilcox, of Brooklyn, N. Y.

THE WISE LIBRARY FUND, \$5,378, for the purchase of scientific books, established in 1911 by Rev. Daniel Wise, D. D., of Englewood, N. J.

THE MEAD LIBRARY FUND, \$5,375, established in 1911 by Miss Elizabeth J. Mead, of Stamford, Conn.

THE GONA LIBRARY FUND, \$161, established in 1911 by a friend of the department of chemistry for the purchase of books for that department.

THE JOHN BELL SCOTT LIBRARY FUND, \$2,070, established in 1917 by Miss Helen Boyce Scott in memory of her father, who graduated in 1881. The income is to be used for the purchase of books for the departments of philosophy and of ethics and religion.

THE HOYT LIBRARY FUND, \$10,086, established in 1919 by Miss Emily M. Hoyt, of Stamford, Conn.

THE CARNEGIE LIBRARY FUND, \$75,000, established in 1920 by the Carnegie Corporation of New York.

THE DUTCHER LIBRARY FUND, \$400, established in 1921 in memory of Merritt T. Dutcher, M.D., by his wife and children. The income of the fund is to be used for the purchase of books on medical subjects.

THE BURROWS LIBRARY FUND, \$20,000, established in 1921 by William H. Burrows, of Middletown, Conn., a Trustee of Wesleyan University from 1909 to 1917.

THE JAMES LIBRARY FUND, \$550, established in 1921 by William J. James (B.A., 1883), of Middletown, Conn.



The income of the fund is to be used for the purchase of books dealing with the history and art of printing and book-making.

In the basement of Fisk Hall is a reading-room, provided with daily and weekly newspapers. Another reading-room, on the second floor of Rich Hall, contains the current issues of the important magazines and reviews.

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## THE VAN VLECK OBSERVATORY.

The Van Vleck Observatory was dedicated June 16, 1916. This building is the gift of the late Joseph Van Vleck, brother of the late Professor John Monroe Van Vleck, and is located on the crest of the hill about three hundred yards due west of the Chapel. It is constructed of Portland brownstone.

The main part of the building is 40 by 80 feet, one-story high, and contains a class-room, library, time-room, computing-room, director's office, and an assistant's room. In a wing extending to the west is a transit-room, with piers for two three-inch transits. At the end of a second wing, extending to the east, is the tower and dome for the chief instrument, a telescope of 20 inches aperture, and 28 feet focal length. The completion of the lens for this instrument has been delayed by the war, and the 12-inch lens from the old observatory is used temporarily in the new mounting. The glass for the new lens has been received from Germany, and the process of grinding will probably be completed within a few months.

For convenience in observing, the floor of the tower is an elevator, 33 feet in diameter, with a vertical range of 10 feet.

The basement contains two rooms for photographic work, a spectroscopic laboratory, and a workshop.

In addition to the telescope and two transits mentioned above, the observatory has a good equipment of apparatus for instruction and research. This includes two portable refractors, two spectroscopes, filar micrometer, photometer, altazimuth instrument, reflecting circle, two sextants, a 4-inch photographic doublet, two clocks, two chronometers, chronograph, comparator for photographic plates, and a computing machine.

## LABORATORIES AND APPARATUS.

THE LABORATORY OF EXPERIMENTAL PSYCHOLOGY occupies four rooms in Fisk Hall: a general laboratory and lecture-room, a smaller research laboratory, a construction and apparatus room, and a physiological dark-room. These rooms were designed expressly for their present use and contain electrical and other fittings of the most approved sort. The equipment of the laboratory is being increased to meet the demands of research as well as for more adequate class-room demonstration and elementary laboratory exercises. Among the more recent acquisitions may be mentioned: a set of preparations of the brain and spinal cord, a pendulum-tachistoscope, a projection apparatus designed for experimental purposes as well as for the projection of lantern slides, a mirror exposure apparatus of new design for studies in the psychology of reading, apparatus for the study of eye-movements and attention, a microscope sphygmograph and registering device, and an Einthoven string-galvanometer.

THE PHYSICAL LABORATORY occupies the John Bell Scott Memorial, for a description of which see page 141. It is well equipped with apparatus for laboratory courses and for demonstration. In electricity, particularly, facilities are afforded for a wide range of methods of testing, with both alternating and direct current. Opportunity is also afforded for graduate instruction and research, especially in alternating currents, discharge through gases, and high-frequency oscillations. The equipment includes Geryk and Gaede rotary air-pumps, a Gaertner interferometer, chronograph and standard clock, stationary internal-combustion engine with Prony brake, Duddell oscillograph, Leeds and Northrup potentiometer, Compton electrometer, Rosa curve-tracer, and a large amount of apparatus for radio telegraphy.

In addition to the electrical equipment of the Scott Laboratory, the boiler house contains a 25-horse-power Ball engine, and a 17½-kilowatt General Electric direct current generator, with accessory apparatus.

THE CRAWFORD MEMORIAL FUND. A fund of five thousand dollars has been given by Hanford Crawford, of St. Louis, in

memory of the Reverend Morris D'Camp Crawford, who was a trustee of Wesleyan University from 1871 to 1896. The proceeds of this fund are devoted to the purchase of apparatus for the department of physics, or to the promotion of research in the same department.

THE CHEMICAL LABORATORY finds accommodation on the lower floors of Judd Hall. Two lecture and recitation rooms provide facilities for class instruction. The larger laboratory courses are accommodated in rooms adjoining the lecture rooms. The analytical laboratory contains over fifty desks, and in another room there are temporary desks for one hundred and fifty students in general and organic chemistry. Owing to the present crowded condition of the laboratories, temporary provision has been made in the John Bell Scott Memorial and in the room adjoining the machine shop for laboratory work in physical chemistry and quantitative analysis.

The very valuable library of chemical periodicals collected by the late Professor Atwater is housed in the chemical laboratory and is accessible to instructors and students alike.

Announcement was made at the opening of college, September, 1916, of a gift by Mrs. Gardiner Hall, Jr., of South Willington, Conn., in memory of her husband, for the construction of a new chemical laboratory.

THE BIOLOGICAL LABORATORY occupies five rooms in Judd Hall and three rooms in the John Bell Scott Memorial. Four rooms in Judd Hall are used for general laboratory purposes and the rooms in Scott Memorial for physiology and bacteriology. The equipment provides an abundance of material for anatomical, histological, and embryological study, and apparatus necessary for elementary biological, physiological, and bacteriological work. The general laboratory room contains a type collection illustrating all orders of animals, and students are allowed to use the large museum collection for comparison and direct study.

THE AMOS JAY GIVENS BIOLOGICAL FUND. A fund of twenty-five thousand dollars has been given by Amos Jay Givens, M. D., LL. D., of Stamford, the income of which is to be used for the equipment and maintenance of the department of biology, or for the promotion of research in that department.

THE MACHINE SHOP occupies the west room in the boiler house, and is in charge of a skilled mechanic. It is equipped with first-class power lathes, planer, shaper, etc., and affords ample facilities for the construction of new apparatus, for purposes both of demonstration and of investigation; for the repair of apparatus already in use; and, to a limited extent, for the instruction of advanced students who have exceptional mechanical aptitude.

MATHEMATICAL MODELS. This collection, the gift of Ebenezer Hill (B. A., 1870), of South Norwalk, comprises a complete set of the models made by Brill of Darmstadt, for illustration in the higher branches of mathematics, as well as in mathematical physics and crystallography. The models are arranged in a series of cases in the mathematical reading-room in Observatory Hall.

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## GYMNASIUM AND ATHLETIC FIELD.

THE FAYERWEATHER GYMNASIUM is located on the north side of the rear campus, parallel with Wyllys Street. Its dimensions are 55 by 205 feet.

The basement contains a large room for shower baths, a room adjacent for rubbing and drying, a large locker room, and toilet rooms. On the first floor is the main hall of the gymnasium, which is well equipped and affords ample room for every variety of gymnastic exercise. The director's office and a dressing room for members of the Faculty are also on the first floor. Attached to the director's office is a private room for the college physician, which is used for consultation and examination. Special attention has been paid to ventilation, drainage, and lighting, and the building is believed to contain the best features of a modern gymnasium.

An addition to the main building, completed in January, 1914, contains a swimming pool measuring sixty by thirty feet. The pool is lined with white ceramic tiles, with lanes in the bottom marked in blue, and is equipped with a life-rail and gutter, with markings showing depth and distances. The walls are of water-proof concrete painted brown, and the walk around the pool is of white tiles. The pool is nine and a half feet deep at the east end, and four feet deep at

the west end. There is a gallery at the west end, entered from the main floor of the gymnasium. The pool is lighted by large windows at the east end, and by windows on the sides. Artificial lighting is furnished by a system of reflected light. Provision is made for a system of refiltering, and the pool is in every way sanitary. Above the pool are two excellent hand-ball and squash courts. A 12-lap running track, with a 45-yard "straightaway," encircles the whole of the second floor.

The mess hall, built in 1918 for use by the Student Army Training Corps, has been added to the equipment for physical training, and is used for hand-ball and other indoor games.

Exercise on the athletic field and in the gymnasium is required of the Freshman, Sophomore, and Junior classes three hours a week for the year. Elective work in the gymnasium is offered to the Junior and Senior classes. A well developed system of intramural sports affords opportunities for all to engage in competitive games.

THE ANDRUS FIELD lies in the rear of the main line of college buildings, just south of the gymnasium. A quarter-mile cinder track, with a "straightaway" of 100 yards, encircles one portion of the field, within which ample room is afforded for baseball and field and track athletics. Football is played in another part of the field which has recently been improved for the purpose. The entire field, covering seven acres, provides sufficient space for class and university teams to practise at the same time. Its proximity to the college enables the whole student body to keep in touch with the training in all branches of athletics, and affords the teams an opportunity to use the dressing-rooms and baths reserved for them in the gymnasium. In 1920 an additional baseball field was constructed on the Foss property, adjacent to Andrus Field.

All students have free use of the college tennis courts, of which there are thirteen.

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## MUSEUM.

THE MUSEUM OF NATURAL HISTORY AND ETHNOGRAPHY occupies the upper stories of the Orange Judd Hall of Natural Science. The collections are arranged with special reference to their educational use, and are freely accessible to students.

The nucleus of the departments of zoölogy and botany was formed by the Shurtleff collection, collected by Simeon Shurtleff, M. D., and purchased by the University in 1868.

The zoölogical department received in the years between 1872 and 1881 most important accessions in liberal donations and exchanges from the Smithsonian Institution, and in collections made by the curators on the coast of New England, through the facilities afforded by the United States Commissioner of Fish and Fisheries. Expeditions to Bermuda, Florida, and Newfoundland also added large and valuable collections. Valuable collections of insects were presented by Richard L. de Zeng in 1896, and by Mrs. E. K. Hubbard in 1898. In 1908 a fine collection of birds' nests, and a collection of reptiles and amphibians, from Portland and Cromwell, was received from Mr. Charles H. Neff. At the death of Mr. Neff in 1911, his entire collection came as a legacy to the museum. The collection is rich in skins, mounted specimens, and eggs of the birds of Portland and vicinity. The zoölogical department includes about thirteen thousand species. The vertebrata of North America, the marine invertebrata of New England, and the mollusca in general, are especially well represented.

The herbarium comprises about five thousand species, representing quite fully the flora of New England, and including also many specimens from foreign localities. The large collection of Joseph Barratt, M. D., came into the possession of the university in 1879. The herbarium of Rev. Merrill Hitchcock, B. A., including about 700 specimens, of which about 200 are from Connecticut, was presented to the museum in 1908.

The mineralogical department includes about three hundred and fifty species, and a much larger number of varieties. The Franckfort collection, purchased in 1858, contains many choice specimens, mostly from European localities. The minerals of the interesting region in which Middletown is situated are well represented by collections commenced by the labors of Professor Johnston (1835-1868), and largely increased in later years. Important accessions were obtained in 1899 by collecting trips to Nova Scotia and to Herkimer County, N. Y. The Sheldon collection, purchased in 1904, includes many beautiful and valuable specimens.

The geological department includes collections in lithology, physical geology, and paleontology. The lithological collection received in 1897 a valuable accession in the gift of a set of the educational series of rock specimens described in Bulletin No. 150 of the U. S. Geological Survey, presented by the Survey. A suite of Ward's casts of fossils, presented by Orange Judd, M. A., in 1871, serves an excellent purpose in the work of instruction, affording the student a representation of many remarkable forms of ancient life, actual specimens of which are rare or unique. A valuable collection of Tertiary fossils was received in 1887 from the Smithsonian Institution, in exchange for duplicate shells from the Shurtleff collection. The collections in paleontology have been very largely increased since 1893 by the work of the late curator, S. Ward Loper, M. A., in the vicinity of Middletown, at Valcour Island, Lake Champlain, in western Maryland, in the vicinity of Chattanooga, Tenn., Cañon City and Florissant, Col., and Fossil, Wyo., and in Nova Scotia. Especially important among these accessions are the collections of fossil fishes and plants from the Triassic shales of the Connecticut valley, and of Tertiary fishes and plants from Fossil, Wyo., and Tertiary plants and insects from Florissant, Col. A choice collection of European fossils, including a number of beautiful specimens from the lithographic limestone of Solenhofen, was received in 1895 from the University Museum of Munich, in exchange for American fossils. The private collection of Mr. Loper, purchased for the museum in 1900, is very rich in fossil fishes and plants from the fossiliferous shales of the vicinity of Middletown.

The ethnographical department is especially rich in specimens illustrating the life of the aborigines of North America. Important contributions of pottery, casts of implements, models of dwellings, and other objects, have been received from the Smithsonian Institution. A very valuable collection of objects from burial mounds near Chattanooga, Tenn., was deposited in the museum in 1896 by Hon. A. R. Crittenden, and has since then been purchased. The private collection of Mr. Loper, purchased in 1903, contains many interesting Indian relics from the vicinity of Middletown. The collection of local Indian relics has been greatly increased by the legacy of Charles H. Neff in 1911. The department also possesses a

valuable collection of pottery from the guano beds of Peru, presented by Joseph S. Spinney; a collection of Mexican antiquities, presented by Hon. Arnold Shanklin, former United States Consul-General in Mexico; an interesting collection of weapons and other objects from the South Sea Islands; a collection of weapons and implements from equatorial West Africa, presented by Frederick B. Northam; a collection of relics from Assuan, Egypt, presented by Clarence S. Wadsworth, B. A.; and valuable collections of objects illustrative of Chinese life and customs, presented by Rev. Marcus L. Taft, D. D., Mrs. W. W. Wilcox, Rev. John Gowdy, D. D., and Rev. Joseph Beech, D. D. The collection of coins numbers about 4,500, exclusive of duplicates. Included in this number is a collection of about 1,800 Chinese coins, some of which are ancient and very rare, presented by Rev. Marcus L. Taft, D. D. Other valuable collections of Chinese coins have been received from Rev. John Gowdy, D. D., and Rev. Joseph Beech, D. D. A valuable collection of Greek and Roman coins and facsimiles of such coins, historical medals, and copies of such medals, was presented to the museum in 1906 by Stephen H. Olin, LL. D. Additional specimens subsequently presented by Dr. Olin make the number of specimens in this collection more than 600. The greater part of the ethnographical collection is at present arranged in the lower hall of the museum, with the collections in mineralogy and geology. The coins (with the exception of the Olin collection and certain other special collections placed on exhibition in the museum) are kept in a case in the classical seminary room in Fisk Hall, where they can be seen by students and others on special application.

The following is an approximate statement of the number of specimens in the various departments of the museum:—

#### DEPARTMENT OF ZOÖLOGY.

Mammals—skins mounted and unmounted,	-	-	-	225
alcoholic,	-	-	-	50
skulls and skeletons,	-	-	-	110
Birds—skins mounted and unmounted,	-	-	-	2,000
nests and eggs,	-	-	-	1,600
Reptiles,	-	-	-	600



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Amphibians, - - - - -	200
Fishes, - - - - -	2,100
Insects—pinned and alcoholic, - - - - -	6,500
nests, borings, etc., - - - - -	50
Crustacea, - - - - -	1,500
Worms, - - - - -	1,800
Mollusks—shells, - - - - -	90,000
alcoholic, - - - - -	4,000
Echinoderms, - - - - -	1,000
Cœlentera, - - - - -	1,700
Sponges and protozoa, - - - - -	150

## DEPARTMENT OF BOTANY.

Plants in herbarium, - - - - -	11,400
Specimens of wood, - - - - -	400
Miscellaneous botanical specimens, - - - - -	1,100

## DEPARTMENTS OF MINERALOGY AND GEOLOGY.

Minerals and rocks, - - - - -	22,100
Fossils—Paleozoic, - - - - -	11,500
Mesozoic, - - - - -	3,700
Cenozoic, - - - - -	3,000

## DEPARTMENT OF ETHNOGRAPHY.

Miscellaneous ethnographic specimens, - - - - -	4,400
Coins, - - - - -	7,000

The museum is open to the public on Wednesday and Saturday afternoons.

## FELLOWSHIPS AND SCHOLARSHIPS.

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### THE SQUIRE FELLOWSHIP.

This fellowship was founded in 1873, as the Squire Scholarship, by Hon. Watson Carvosso Squire (B. A., 1859, LL. D., 1911), of Seattle, Wash. In 1914 the principal of the fund was increased and the fellowship was established. It is open to Bachelors of Arts of Wesleyan University or of other colleges. The tenure of the fellowship is one academic year, with the possibility of reappointment for a second year. The income is not less than \$400 nor more than \$450. The Fellow shall devote himself to advanced study under the direction of the instructors in the department of Greek.

### THE RICH FELLOWSHIP.

This fellowship was founded by Mr. William Thayer Rich, of Boston, Mass., a trustee of the University. The income is \$450. It is awarded for graduate study in the department of economics and social science.

### TUITION SCHOLARSHIPS.

Each year the Trustees place at the disposal of the President, for the benefit of needy and worthy students, a sum of money which is used to pay, in whole or in part, the charge for tuition.

Tuition scholarships are intended to assist successful students who need financial aid to carry forward their college studies, and to assist well-prepared applicants for admission who give promise of creditable work, subject to suitable limitations.

A limited number of applicants may be assured, before entering college, of scholarship awards for the first semester. Such provisional scholarships shall be a maximum of \$70 for the semester. Application for these scholarships must be made on blanks supplied for the purpose, and must set forth satisfactory evidence of the student's financial needs which

must be vouched for by his parent or guardian, and must include references to at least two other competent persons, preferably his preparatory school principal and his minister. Applications will receive favorable consideration only upon receipt of satisfactory letters from the persons named as references, with regard to the character, scholarship, and financial needs of the applicant.

Applications from prospective students for scholarship aid should be filed at as early a date as possible. Favorable action cannot be assured unless the application is received prior to September 1.

Scholarships awarded for the first semester of the Freshman year will be continued for the second semester if the student has maintained a satisfactory standing in the work of the first semester.

Those desiring scholarship aid for the Sophomore, Junior, or Senior year must file, not later than June 30, similar applications containing complete and reasonably detailed statements of income and expenses for the preceding year. Scholarships for members of the three upper classes will be awarded in three groups according to the scholarship standing of the student in the portion of the college course already completed, if his needs warrant so much aid; to the first class, those with excellent grades, a full tuition scholarship of \$140 a year; to the second class, those with good grades, \$120; to the third class, those with average grades, \$100. Notice of the awards will be mailed to the applicants not later than August 1.

The amount of scholarships awarded will be credited on the semester bills. Scholarships regularly lapse at the close of each year. Scholarships will not be awarded to students failing of promotion, on probation, under censure, or not candidates for a degree.

Any one of the following reasons may cause the rejection of an application or the forfeiture of a scholarship already awarded:

- (a) evidence satisfactory to the committee that the scholarship is not needed;
- (b) expensive habits—failure to exercise proper economy in respect to room, board, or general living expenses will be regarded unfavorably by the committee;

- (c) serious neglect of studies;
- (d) breach of college discipline, indulgence in intoxicating liquors, or other gross misconduct.

If the cause of forfeiture has been removed, a scholarship may be restored after the lapse of a semester.

The committee on scholarships and loans has power, in exceptional cases, to waive the above regulations and to remit in full or in part the tuition or other charges.

All correspondence relating to scholarships must be addressed to the President of the University.

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Perpetual scholarships established by Jacob Atkins, John M. Howe, Ralph Mead, Charles C. North, Aaron Sanford, Jr., James Strong, Charles Woodbury, and the 27th Street Methodist Episcopal Church of New York City have been transferred to the University. These scholarships, which are at the disposal of the President, exempt the holders from the charge for tuition subject to the regulations set forth above.

In addition to these free tuition scholarships are the following:—

#### THE LOVELAND SCHOLARSHIP.

This scholarship was founded in 1874 by Miss Louisa Loveland. The income of \$2,879 is available, at the discretion of the Faculty, for the use of a deserving student who needs pecuniary assistance. For this scholarship only such students as intend to devote themselves to the work of the Christian ministry in the Methodist Episcopal Church can be candidates.

#### THE JOHN EVANS SCHOLARSHIP.

This scholarship was founded in 1883 by Mrs. Ann Evans in memory of her husband. The income of \$2,402 is given annually to that member of the Senior or Junior class who is named by the Board of Trustees, or by some authority to whom they may delegate the nomination. For this scholarship only such students as are preparing themselves for the ministry, and are already licentiates in the Methodist Episcopal Church, can be candidates.

## THE KATHRIN MILLER CADY SCHOLARSHIP.

This scholarship was founded in 1916 by Mrs. Caroline L. Miller of Middletown in memory of her daughter. The income of \$2,877 is given annually to a graduate or undergraduate student for advanced study in the department of physics.

## THE WILLIAM DAY LEONARD SCHOLARSHIP.

This scholarship was founded in 1917 by friends of the late William Day Leonard, B. A., 1878. The income of \$2,712 is awarded annually by the Faculty to one of three undergraduates nominated by the College Senate. The undergraduates are from the Junior, Sophomore, or Freshman classes. Mr. Leonard's characterization of a man is as follows:

"Accomplished, without ostentation; grave, without austerity; gentle, without weakness; cheerful, without frivolity; conciliatory, but unbending; rigid in performance, yet indulgent toward all faults but his own."

Upon the basis of such characterization, the scholarship is awarded to the student who gives greatest promise of success through character, scholarship, physical endowments, personal popularity, and qualities of leadership.

The holder of the scholarship in 1921-22 is Alexander Paris Robertson, Class of 1922, of Glens Falls, N. Y.

## SCHOLARSHIP FUNDS.

The income of the following scholarship funds is available, at the discretion of the President, to pay, in whole or in part, the tuition of deserving students who need pecuniary aid:

**The Frank S. Jones Scholarship Fund, \$1,166,** founded in 1892 by Frank S. Jones, of Brooklyn, N. Y.

**The Billings Scholarship Fund, \$3,984,** founded in 1902 by William Perry Billings, of Kingston, Pa.

**The Starks Scholarship Fund, \$1,172,** founded in 1902 by Mrs. Elizabeth B. Starks, of Troy, N. Y.

**The Shonk Scholarship Fund, \$27,245,** founded in 1903 by John J. Shonk and Mrs. George W. Shonk, of Plymouth, Pa., in memory of Hon. George W. Shonk (B. A., 1873).

- The Philip Reynolds Scholarship Fund, \$1,171,** founded in 1903 by Philip Reynolds, of Brockton, Mass.
- The Shepherd Scholarship Fund, \$3,344,** founded in 1904 by James G. Shepherd, of Scranton, Pa.
- The Connell Scholarship Fund, \$3,455,** founded in 1905 by Hon. William Connell, of Scranton, Pa.
- The Swift Scholarship Fund, \$35,233,** founded in 1905 by Mrs. Annie M. Swift, of Chicago, Ill., in memory of her husband, Gustavus F. Swift.
- The George G. Reynolds Scholarship Fund, \$2,814,** founded in 1906 by Hon. George G. Reynolds (B. A., 1841), of Brooklyn, N. Y.
- The Cyrus D. Jones Scholarship Fund, \$5,536,** founded in 1906 by Cyrus D. Jones, of Scranton, Pa.
- The Harriet Townsend Reynolds Scholarship Fund, \$2,812,** founded in 1907 by Hon. George G. Reynolds (B. A., 1841), of Brooklyn, N. Y., in memory of his wife.
- The Frank Reynolds Scholarship Fund, \$2,812,** founded in 1907 by Hon. George G. Reynolds (B. A., 1841), of Brooklyn, N. Y., in memory of his son, who graduated in 1868.
- The Abigail Pennoyer Reynolds Scholarship Fund, \$2,779,** founded in 1908 by Hon. George G. Reynolds (B. A., 1841), of Brooklyn, N. Y., in memory of his mother.
- The Samuel D. Hubbard Scholarship Fund, \$11,103,** founded in 1910 by Miss Jennie M. Clarke, of Middletown, in memory of her uncle, Hon. Samuel Dickinson Hubbard, for many years a trustee of Wesleyan University.
- The Montgomery Scholarship Fund, \$1,100,** founded in 1910 by the Rev. John E. Adams, D. D., of Patchogue, N. Y., trustee of the Jane P. Fitch Benevolent Fund, in memory of Rev. James Montgomery.
- The Mead Scholarship Fund, \$2,475,** founded in 1911 by Miss Elizabeth J. Mead, of Stamford, in memory of her father, Rev. Nathaniel Mead.

- The Lewis Gunn Scholarship Fund, \$2,709**, founded in 1911 by Mrs. Mary C. Holman, of Hopkinton, Mass., and Mrs. Lillie G. Smith, of Washington, Conn., in memory of their father, Rev. Lewis Gunn.
- The Jane D. Boardman Scholarship Fund, \$10,729**, founded in 1911 in memory of Mrs. Jane D. Boardman, of Middletown, by the executors of her estate, Hon. Frank B. Weeks, of Middletown, and Dr. Joseph H. Townsend, of New Haven.
- The Robert Alfred Davison Scholarship Fund, \$5,550**, founded in 1912 by George Willets Davison (B. A., 1892), of New York, N. Y., and his wife, Harriet Baldwin Davison, in memory of their son.
- The Walter Hubbard Scholarship Fund, \$42,833**, founded in 1912 by Walter Hubbard, of Meriden.
- The Butler Scholarship Fund, \$5,000**, founded in 1912 by Seth H. Butler and his sons, Abbott G., Earle C., and Dale D. Butler, all of Middletown.
- The Alexander Montague Atherton Scholarship Fund, \$5,325**, founded in 1913 by Mrs. J. B. Atherton, of Honolulu, Hawaii, in memory of her son, who graduated in 1897.
- The Burr Scholarship Fund, \$3,149**, founded in 1915 by W. O. Burr, of Hartford.
- The Clarence Everett Bacon Scholarship Fund, \$1,042**, founded in 1916 in memory of Clarence Everett Bacon (B. A., 1878) by his wife, Mrs. Katharine S. Bacon, of Middletown, and his children, Katharine Whiting Bacon, Roger Whiting Bacon (B.A., 1910), and Clarence Everett Bacon, Jr. (B. S., 1913).
- The George L. Clark Scholarship Fund, \$5,206**, founded in 1916 by Hon. John C. Clark (B. A., 1886), of New York, N. Y., in memory of his father.
- The Davis Scholarship Fund, \$1,966**, founded in 1916 by Miss Ella A. Davis, of Stamford.
- The Roswell S. Douglass Scholarship Fund, \$3,648**, founded in 1916 by Mrs. Roswell S. Douglass, of Brookline, Mass., in memory of her husband, who graduated in 1861.

- The Alexander McLean Scholarship Fund, \$2,611,** founded in 1916 by Miss Ellen McLean, of Tarrytown, N. Y., in memory of Rev. Alexander McLean.
- The John R. Todd Scholarship Fund, \$2,611,** founded in 1916 by Miss Ellen McLean, of Tarrytown, N. Y., in memory of John R. Todd.
- The Terrill Scholarship Fund, \$2,608,** founded in 1916 by Rev. David G. Downey (B. A., 1884), of New York, N. Y., and his wife, Lilian Terrill Downey, in memory of Moses W. and Almira O. Terrill.
- The Julius Hotchkiss Scholarship Fund, \$2,611,** founded in 1916 by Miss Fanny Hotchkiss, of Middletown, in memory of Julius Hotchkiss.
- The Enoch Perkins Scholarship Fund, \$2,611,** founded in 1916 by Miss Cornelia A. Hotchkiss, of Middletown, in memory of Enoch Perkins.
- The Charles G. R. Vinal Scholarship Fund, \$2,611,** founded in 1916 by Charles G. R. Vinal (B. A., 1861), of Middletown.
- The George W. K. Taylor Scholarship Fund, \$2,578,** founded in 1918 by Mrs. Anna M. Taylor, of Brooklyn, N. Y., in memory of her husband.
- The William North Rice Scholarship Fund, \$2,521,** founded in 1920 by the New York East Conference of the Methodist Episcopal Church.
- The Payne Pettibone Scholarship Fund, \$10,000,** founded in 1921 by Mrs. Kate P. Dickson, of Wilkes-Barre, Pa., in memory of her father, a trustee of Wesleyan University from 1880 to 1888.
- The Reuben Nelson Scholarship Fund, \$10,000,** founded in 1921 by Mrs. Ellen N. Bennett, of Wilkes-Barre, Pa., in memory of her father, a trustee of Wesleyan University from 1877 to 1878.
- The Harvey Scholarship Fund, \$3,000,** founded in 1921 by Edwin B. Harvey (B.A., 1859), of Westboro, Mass.



**The John J. Shonk and Amanda Davenport Shonk Scholarship Fund, \$5,000**, founded in 1921 by Albert Shonk, of Kingston, Pa., in memory of his father and mother.

**The William F. Armstrong Scholarship Fund, \$25,000**, founded in 1921 by William F. Armstrong, of New York, N. Y.

#### LOAN FUNDS.

Besides the scholarships above mentioned, there is a small fund from which loans are made to deserving students in the Junior and Senior classes. These loans bear a moderate rate of interest and are payable usually after graduation.

The Alumni Council Loan Fund, amounting to a total of \$5,000, is available for needy students, in such amount as is not already loaned. The loans, which are limited to \$200 per man per year, bear a moderate rate of interest, beginning six months after graduation or date of leaving college.

## COLLEGE HONORS.

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### PRIZES.

**THE PEIRCE PRIZE.**—A prize of fifteen dollars, the income of a fund given by Rev. Bradford K. Peirce, D. D., is awarded for excellence in natural science. It will be given in 1922 in the department of chemistry upon the final examinations in Courses 7 and 8. The subject of the examination in 1923 will be geology; in 1924, biology.

**THE PHI BETA KAPPA PRIZE.**—A prize of twenty-five dollars, the gift of the Connecticut Gamma of Phi Beta Kappa, is awarded for excellence in Latin. It will be given in 1922 upon a special examination on Cicero's Letters.

No person who has once taken the Phi Beta Kappa prize may compete for it again.

**THE JOHN BELL SCOTT PRIZE.**—A prize of sixty dollars, the income of a fund given by the late Charles Scott, is awarded for excellence in the modern languages. It will be given in 1922 for the best essay on: The Romanticism of Flaubert. In 1923 the prize will be given for work in the department of German.

**THE GIFFIN PRIZE.**—A prize of thirty dollars, the income of a fund given by Mrs. Giffin in memory of her husband, Rev. Charles Mortimer Giffin, D. D., is awarded for the best essay on the general topic of the English Bible. It will be given in 1922 for the best essay on: The Cultural and Religious Value of the Old Testament. Essays should be handed to the Professor of Ethics and Religion on or before the first Monday in May (May 1, 1922).

**THE CAMP PRIZE.**—A prize of thirty dollars, the income of a fund given in memory of Samuel T. Camp, is awarded for excellence in English literature. It will be given in 1922 upon a special examination in Course 6 in English.

**THE JOHNSTON PRIZE.**—A prize of twenty-five dollars, the gift of Rev. David G. Downey, D. D., in memory of Professor John Johnston, is awarded for excellence in electricity. It will be given in 1922 upon a special examination based on the first half of Course 7 in physics.

**THE SPINNEY PRIZE.**—A prize of thirty dollars, the income of a fund given by Joseph S. Spinney, is awarded for excellence in Greek. It will be given in 1922 upon an examination based on Course 2 in Greek.

**THE RICE PRIZE.**—A prize of twenty dollars, given in memory of Rev. William Rice, D. D., is awarded for excellence in mathematics. It will be given in 1922 upon an examination based on Course 7 in mathematics.

**THE WALKLEY PRIZE.**—A prize of fifty dollars, the income of a fund given by the late Webster R. Walkley, D. C. L.—*in memoriam* David Hart Walkley, born April 23, 1857; graduated June 27, 1878; died September 16, 1878—is awarded for excellence in psychology. It will be given in 1922 to that member of the Junior or Senior class who presents the best essay on: The Interaction between Hereditary and Environmental Influences in a Typical Eighth-Grade Pupil.

**THE GERALD PRIZE IN ENGLISH.**—A prize of twenty-five dollars, the gift of Herbert Parvin Gerald, B. A., 1882, is awarded for excellence in some special phase of the work in one of the courses in English literature assigned to the Junior year. It will be given in 1922 after some special test, to be announced later, on the work of Course 16 in English.

**THE GERALD PRIZE IN ECONOMICS.**—A prize of twenty-five dollars, the gift of Herbert Parvin Gerald, B. A., 1882, is awarded for excellence in the elementary course in economics. It will be given in 1922 upon a special examination on Course 1 in economics, to be held June 3, 1922.

Students who compete for either the Camp, the Johnston, the Spinney, the Rice, the Walkley, or the Gerald prizes must do so during the year in which they regularly pursue the course or courses on which the examination for the prize is based.

**THE WISE PRIZE.**—A prize of twenty-five dollars, the income of a fund given by Rev. Daniel Wise, D. D., is awarded for excellence in ethics. It will be given in 1922 to that member of the Senior class who presents the best essay on the topic: Ethical Problems of Modern Industry. Essays should be handed to the Professor of Ethics and Religion on or before the first Monday in May (May 1, 1922).

**THE PRENTICE PRIZE.**—A prize of twenty dollars, given by the late Mrs. Elizabeth Brooks Prentice in memory of Professor George Prentice, is awarded to that member of the Senior or Junior class who excels in German. It is given in alternate years, and will be awarded in 1922.

**THE SHERMAN PRIZE.**—A prize of fifteen dollars, the income of a fund given by Rev. David Sherman, D. D., is awarded this year to that member of the Freshman class who excels in the Odes of Horace. The subject of the examination in 1923 will be Greek; in 1924, mathematics.

**THE AYRES PRIZE.**—A prize of sixty-five dollars, the income of a fund given by Daniel Ayres, M. D., LL.D., is awarded to that member of the Freshman class who is found upon a special examination, held shortly after the beginning of the college year, to have attained the highest excellence in the studies of his preparatory course. The examination falls into eight parts, covering the following subjects: Latin (4 units); Greek (3 units); French (3 units); German (3 units); English (3 units); history (3 units); mathematics ( $2\frac{1}{2}$  units), and science (3 units). Of these eight parts each candidate will be examined in four, three of which must be English, mathematics, and a foreign language (ancient or modern).

**THE RICH PRIZE.**—A prize of one hundred dollars, the income of a fund given by Isaac Rich, in memory of his wife, is awarded to that member of the Senior class whose oration at Commencement is deemed best in composition and delivery. These orations must not exceed fifteen hundred words in length, and must be left with the department of English on or before the first Monday in May (May 1, 1922).

**THE OLIN PRIZE.**—A prize of forty dollars, the income of a fund given by Mrs. Julia M. Olin, is awarded to that member of the Senior class who excels in English composition. The subject for the essay of 1922 is: The Plays of John Galsworthy. Essays must be left with the department of English on or before the first Monday in May (May 1; 1922).

**JUNIOR EXHIBITION PRIZE.**—A prize of twenty-five dollars is awarded to that member of the Junior class who presents the best oration at the annual Junior Exhibition. In the award of this prize both the composition and the delivery of the oration are considered. The orations must be left with the Department of English three weeks before the date of the Exhibition.

**THE COLE PRIZE.**—A prize of thirty-five dollars, the gift of George Henry Walker, B. S., in memory of Charles Edward Cole, is awarded to that member of the Freshman class who maintains the highest standing in English composition during the second and third terms of his Freshman year. Those who wish to compete should announce their intention by the beginning of the second term.

**THE BRIGGS PRIZE.**—A prize of ninety dollars, the income of a fund given by James E. Briggs, is awarded to the student who excels in debate. No person who has once taken the Briggs prize may compete for it again.

**THE PARKER PRIZE.**—A prize of twenty-five dollars, the income of a fund given by Rev. John Parker, is awarded to that member of the Junior or Sophomore class who excels in declamation.

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The several committees of award will withhold any prize, if, in their judgment, none of the exercises presented in competition for it possess the requisite merit.

## AWARD OF PRIZES, 1920-1921.

*The Peirce Prize*, to PHILIP JAY HOWARD, 1921, and JOHN GEORGE RAYMER, 1921.

*The John Bell Scott Prize*, to GEORGE ROBERT BURNS, 1923, and LAURANCE BRADFORD SNOW, 1923.

*The Camp Prize*, to ARTHUR EUGENE SUTHERLAND, JR., 1923.

*The Johnston Prize*, to GEORGE WILLIAM BAIN, 1921.

*The Spinney Prize*, to ELWYN ARVON ELLIS, 1923.

*The Rice Prize*, to NORMAN WYMAN STORER, 1923.

*The Walkley Prize*, to HOWARD CLIFFORD MCELROY, 1921.

*The Gerald Prize (English)*, to COLEY BANKS TAYLOR, 1922.

*The Gerald Prize (Economics)*, to JOHN AINSWORTH DUNN, 1923.

*The Sherman Prize*, to RADCLIFFE WRIGHT BRISTOL, 1924, and JULIAN KINGSLEY STEVENS, 1924.

*The Ayres Prize*, to CUTLER DELONG WEST, 1924.

*The Rich Prize*, to JONATHAN POTTEIGER BATDORF, 1921.

Committee of Award: Judge Watson Thomas Dunmore, M.A., LL. B., Judge Edward Lee Steele, Ph.B., LL.B., and Seward Vincent Coffin, B.A.

*The Olin Prize*, to HAROLD THORNTON STEARNS, 1921.

*The Junior Exhibition Prize*, to CARLTON FLETCHER HUBBARD, 1922.

Committee of Award: Assistant Professors Stevens, Given, and Chanter.

*The Cole Prize*, to HENRY LLOYD CHURCHILL, 1924. (Honorable mention to CHARLES FRANCIS NETTLESHIP, JR., 1924).

*The Briggs Prize*, to NORRIS HENRY COTTON, 1923.

Committee of Award: Reverend Frank Flood German, D.D., Reverend Edgar Rhuel Hyde, B. A., B. D., and Ernest Alexander Inglis, Ph. B., LL. B.

*The Parker Prize*, to RISING LAKE MORROW, 1923.

Committee of Award: John Wesley Wetzel, Ph.B., Reverend Herbert Duncan Rollason, B.A., and Bertrand Edwin Spencer, B.A., LL.B.

## APPOINTMENTS FOR JUNIOR EXHIBITION AND COMMENCEMENT.

The Junior Exhibition is held on the third Tuesday evening in March. Members of the class seeking appointment hand in an oration of not more than one thousand words on or before February 15th. Ten of the writers are selected to take part in a preliminary contest the first week in March, and from them are selected six to participate in the final contest on the third Tuesday in March.

The selection of speakers for Commencement is determined as follows. Members of the Senior class seeking appointment to speak at Commencement hand in an oration; from the eight competitors whose work is adjudged to be of the highest merit, four are selected by means of a contest in declamation.

The speakers last year were:

### JUNIOR EXHIBITION.

Nelson Marigold Burroughs, Charles Worth Howard,  
Oscar Cargill, Carlton Fletcher Hubbard,  
Frederick Charles Reich.

### COMMENCEMENT.

Bernard Aloysius Kosicki, Jonathan Potteiger Batdorf,  
Howard Clifford McElroy, Harold Thornton Stearns.

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## HONORS IN SCHOLARSHIP.

### I. HONORS IN GENERAL SCHOLARSHIP.

Two grades of honors, designated respectively as honors and high honors, are conferred at graduation, based upon the general scholarship of the student throughout his whole course.

A student completing the requirements for graduation with grades in all courses or half courses completed averaging B shall be graduated with honor; with grades averaging A—with high honor.

## II. DEPARTMENTAL HONORS.

## GENERAL STATEMENT.

Two grades of departmental honors, designated respectively as Junior honors and Senior honors, are offered in the several departments.

Departmental honors are awarded for voluntary and intensive study, reading, research, or laboratory work done by the student within the general field of the courses taken as a major study, including, at the discretion of a professor in the student's major department, other courses in the student's concentration group. While this work is usually supplementary and related to the regular courses, work of a wider and more independent scope and character may be accepted, provided it falls within the general field of the concentration group; but no such plan of work will be approved which would in any considerable degree duplicate a course which the student is counting for graduation.

The purposes of both grades of departmental honors are the development on the part of the student of initiative, power of independent investigation, and critical or constructive scholarship. They are intended to encourage the student to undertake work in connection with his courses beyond the customary requirements.

The candidate should realize that the responsibility for the prosecution of the undertaking rests with himself and not with his instructor. The work is to be carried on in consultation with a professor in the student's major department, but as far as practicable the choice of subjects and the conduct of the work is left to the candidate himself.

It is expected that candidates for departmental honors will not elect more than sixteen hours of courses in addition to the required work in physical education, and students planning to become candidates for Senior honors are advised to plan their previous elections so that they may take as nearly as possible the minimum quota of regular courses in the Senior year.

## JUNIOR HONORS.

Any Junior of normal standing or higher may become a candidate for Junior honors. Applications must be made not



later than three months prior to Commencement, and a preliminary report of the work must be presented to the professor and by him to the committee on departmental honors at least two months before Commencement.

*Examinations.*—The professor in charge tests the applicant's work as regards quantity and quality, by theses, reports, examinations, or such other methods as may be proper. The committee on departmental honors is empowered to make such additional tests as it may deem necessary before confirming the recommendation of the professor.

*Awards.*—Awards of Junior honors are made by the Faculty upon recommendation of the committee on departmental honors. No student is eligible who is not in normal standing in the Junior class, or who has failed to receive a grade of C— or higher in any course pursued at the same time as the departmental honor work. The candidate must have attained an average grade not lower than B in the courses in his concentration group so far as pursued, and in the departmental honor work.

#### SENIOR HONORS.

Any Senior who has received Junior honors or whose grades have averaged B or higher may become a candidate by applying not later than the tenth of October of his Senior year, at which time an outline of proposed study or investigation in connection with the courses which he is pursuing for his major study, or for his concentration group, shall be presented for approval to the professor in charge of the major study, and by him to the committee on departmental honors.

A preliminary report must be submitted to the professor in charge, and by him to the committee, at least fifteen days before the close of the first semester, and if the report is unsatisfactory the candidacy is cancelled.

Upon recommendation of the professor, and with the approval of the administration committee, a student satisfactorily pursuing work for Senior honors may during the second semester receive an increased allowance of absences from college exercises, except in the case of announced written recitations and examinations, subject to revocation in case of abuse of the privilege.

*Examination.*—Senior honors are awarded only after an examination in the general field of the major study as well as in the departmental honor work, before the committee on departmental honors and such others as they may wish to associate with themselves. At the discretion of the committee, a thesis, report, or other evidence of proficiency may also be required.

*Awards.*—Awards of Senior honors are made by the Faculty upon recommendation of the committee on departmental honors. No student is eligible who does not hold regular standing in the Senior class, or who has failed to receive a grade of C— or higher in any course pursued at the same time as the departmental honor work. The candidate must have attained an average grade not lower than B in all the courses in his concentration group, and in the departmental honor work.

High Senior honors may be awarded by the Faculty to candidates for Senior honors whose departmental honor work gives evidence of unusual capacity for independent investigation, and whose grades, in all courses in his concentration group, are A— or higher.

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*Honorable Mention.*—A student who did not receive Junior honors may comply with the requirements therefor in his Senior year, in which case he may be awarded honorable mention in the department.

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All work required for Junior and Senior honors must be completed before the beginning of the final examinations in June.

Awards of honors in general scholarship, of Junior and Senior departmental honors, and of honorable mention will be printed on the programme at Commencement, in the Catalogue, and in the Alumni Record, and will be suitably posted throughout the ensuing year.

## AWARD OF HONORS.

COMMENCEMENT, 1921.

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### HONORS IN GENERAL SCHOLARSHIP.

#### HIGH HONORS.

Herbert Eli Arnold.

#### HONORS.

George William Bain,  
Clifton Harold Berlinghof,  
Leonidas Hamlin Bunyan,  
Edward Lawrence Christie,  
Harwood Burrows Dolbeare,  
Paul Herbert Doney,  
Fred Forest Dowlin,  
Leon Whitmore Ellsworth,  
Harry Frank,

Benjamin Franklin Holme,  
Bernard Aloysius Kosicki,  
Louis Onorato La Bella,  
Herbert Evans Macdonald,  
Howard Clifford McElroy,  
Harold Thornton Stearns,  
Richard Timothy Steele,  
Theodore Cuyler Streibert,  
Everett William Thompson,

William Enos Wetzel.

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### DEPARTMENTAL HONORS.

#### SENIOR HONORS.

Geology: Harold Thornton Stearns.

#### JUNIOR HONORS.

Romance Languages: Ralph Radley Vernon.

Psychology: John Stevenson Foster.  
Ralph Wilbur Walter.

Physics: Richard Cheney Hitchcock.

Chemistry: John Stanley Lachowicz.  
Elbert Cook Weaver.

Biology: James Allen Scott.

## DEGREES.

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The following degrees are conferred by the University in course: Bachelor of Arts (B. A.), Bachelor of Science (B. S.), Master of Arts (M. A.). The degree of Bachelor of Philosophy (Ph. B.) will be conferred, beginning with the class of 1923.

**THE BACHELOR'S DEGREE.**—The degrees of Bachelor of Arts, Bachelor of Science, and Bachelor of Philosophy are conferred on those who have met the requirements for admission to the respective courses as set forth on page 39, and have taken the required quota of studies in college, as prescribed on pages 116–118.

The baccalaureate degree is awarded *summa cum laude* to a student who takes both high general and high Senior departmental honors; *magna cum laude*, to a student who takes either high general or high Senior departmental honors; *cum laude*, to a student who takes either general or Senior departmental honors.

**THE MASTER'S DEGREE.**—The degree of Master of Arts is conferred in accordance with the following regulations:—

1. The degree of Master of Arts is conferred upon Bachelors of Wesleyan University, of at least one year's standing, at the satisfactory conclusion of a course of advanced, non-professional study, pursued in residence for a period of not less than one year.\* This course of study is under the

\* Candidates for the Bachelor's degree who satisfy the requirements for honors in general scholarship may in their Senior year be admitted to candidacy for the Master's degree, provided that the amount of their undergraduate work remaining to be completed at the close of the September special examinations does not exceed three hours. Except by express permission of the Committee on Graduate Instruction, their undergraduate work must satisfy the group requirement in such manner that they are free to elect the remaining three hours in the department or departments in which they intend to do graduate work. Such candidates shall not be members of any athletic or debating teams, musical or dramatic organizations, or take part in any similar undergraduate activity. This rule, however, does not necessarily debar them from competing for any prize for which they would be eligible as undergraduates. The entire work of these candidates is under the direction of the Committee on Graduate Instruction. The Master's degree will not be conferred upon them until the Commencement succeeding that at which the Bachelor's degree has been conferred.

full direction of the Committee of the Faculty on Graduate Instruction, composed of three permanent members with the addition of the instructor in charge of each department in which the candidate pursues work.

2. In the case of Bachelors of other colleges whose course of study is accepted by the Committee on Graduate Instruction, or who pass such additional examinations as the Committee may prescribe, the degree of Master of Arts is conferred on the conditions prescribed in the case of Bachelors of Wesleyan University.

3. Graduate students, excepting assistants and fellows, pay the regular tuition and laboratory fees. A fee of five dollars is required of every candidate for the Master's degree at his registration, and a fee of ten dollars is required before the degree is conferred. Both fees are payable to the Assistant Treasurer of the University.

4. Evidence of the candidate's proficiency in the approved course of study is given in one or more of the following ways, as the Committee may prescribe: (*a*) by examinations, oral or written; (*b*) by a thesis; (*c*) by the exhibition of scientific specimens, preparations, or processes. All such tests of proficiency are under the direction of the Committee, who will report to the Faculty proper candidates for the degree.

In addition to these regulations of the trustees, the Committee on Graduate Instruction has from time to time adopted standing rules of procedure, among which the following should be noted as specially important:—

A prospective candidate for the Master's degree must apply to the secretary of the Committee on Graduate Instruction. Such application must be made not later than October 15 of the academic year during which he proposes to conclude his studies for the degree. On receipt of such an application, the Committee will consult the instructors concerned, who will communicate with the candidate, if necessary, and will prepare a course of study and submit it to the Committee. The course of study prescribed for the candidate may be confined to a single department, or may include work in more than one department; but the Committee does not usually approve

courses including work in more than two departments, nor in any case a course which is lacking in unity.

When the course of study submitted by the instructors has been approved by the Committee, and the receipt for the payment of the required fees has been presented to the secretary of the Committee, the candidate will be formally admitted. He will then receive an official copy of the course of study prescribed for him, including a statement of the number and character of the examinations required.

Whatever other tests of proficiency may be prescribed, each candidate for the Master's degree is required to pass an oral examination in the presence of the Committee, upon the whole, or a previously specified part, of his course of study.

All examinations of candidates for the Master's degree are conducted at the University.

Unless the Committee, for important reasons, determines otherwise in some specific case, no examinations will be given (except in regular college courses), and no thesis or other work prescribed in preparation for the degree will be received, after the beginning of the final examinations in the academic year in which the candidate desires to be recommended for the degree.

When the preparation of a thesis is prescribed, the candidate is required to present through the Secretary, at or before the time of his final examination, one or more copies thereof for preservation in the University Library, and in such other places as the Committee may determine. Such theses are to be neatly and accurately printed, or type-written, on paper of letter size, and substantially bound. A model of suitable execution may be seen at the University Library.

## DEGREES CONFERRED.

### COMMENCEMENT, JUNE 20, 1921.

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#### DEGREES IN COURSE.

The Degree of Bachelor of Science was conferred on:

Howard Willis Lindsey.  
As of the class of 1918.

Arthur Searles Cramer,            Charles Nathan Downs,  
Harry Emanuel Lawson.  
As of the class of 1919.

Herbert Eli Arnold,            Marshall Brown,  
George William Bain,        Robert Watkins Clarke,  
Bertram William Saunders.  
As of the class of 1920.

Clifford Reinhold Anderson,	LeRoy Frederick Heidenreich,
Charles Palmer Bateman,	Robert Harvey Hibbard,
John Randolph Belcher,	Marcellus Weed Hitchcock,
John Beardmore Berrien,	Joseph Waldo Hosdowich,
John Robert Bohlmann,	Philip Jay Howard,
Leonidas Hamlin Bunyan,	Chester Thomas Hubbell, Jr.,
Stanley Robert Camp,	Lauriston Leslie Jacobs,
Lewis Swinnerton Combes,	Curtiss Sherman Johnson,
John Alpaugh Conover,	Foster Macy Johnson,
William Frank Deppen,	Carl Krenz,
Fred Forest Dowlin,	John Compton Leffler,
Frederick Arthur Elsey,	Albert Franklin Leland,
Theodore Trail Everitt,	Herbert Evans Macdonald,
Franklin Edward Fellows,	Nils Carl Malmquist,
August Clyde Ferger,	Nelson Lewis Parsons,
Henry Raymond Giere,	Alcott Terrill Peck,
Robert Nelson Gordon,	James Knickerbocker Peck,
Harold Frank Graves,	Robert Merritt Perkins,
Don Lee Hartman,	Everett Blakeley Raines,

George Paul Rapp,	Harold Thornton Stearns,
Clesson Alden Rogers,	Theodore Cuyler Streibert,
William Henry Ryalls,	Robert Pomeroy Swift,
Donald William Sherman,	Charles Fischer Trautwein,
Herbert Clarence Skiff,	Harold Canfield Tyson,
Paul William Stansbury,	Clifford Corey Varney,
Frederick Burnham Woodhouse.	

The Degree of Bachelor of Arts was conferred on:

Samuel Spafford Ackerly.

As of the class of 1918.

Herman David Berlew,	Benjamin Franklin Holme,
Clark Smith Defendorf,	Leo Julius Meyer,
Boyd Raymond Greenwalt,	Wallace Edwin Sample,
Roger Clark Stimson.	

As of the class of 1920.

Jonathan Potteiger Batdorf,	Howard Clifford McElroy,
Clifton Harold Berlinghof,	Arthur James May,
Charles Barrett Brown,	John Harold Morgart,
Robert Andrew Burdick,	Charles Weatherwax Nethaway,
Frank Summerfield Burgwin,	Paul Axford Newsom,
Edward Lawrence Christie,	Everett Lester Oldham,
William Henry Cummings,	John Ronald Ott,
Jasper Cropsey Dibble,	John Alanson Patten, Jr.,
Lavern Charles Dibble,	Theodore Ferry Plimpton,
Harwood Burrows Dolbeare,	Israel Poliner,
Paul Herbert Doney,	Clyde Warren Quick,
Donald Clayton Dorian,	John George Raymer,
Leon Whitemore Ellsworth,	Willis Cleaves Russell,
Harry Frank,	Carleton Forman Scofield,
Donald Hapgood Guibord,	Henry Arthur Simmons,
Jay Hanford,	Merritt Abner Smith,
Howard Reynolds Harrison,	Richard Timothy Steele,
Henry Heuer, Jr.,	Frank Leland Stowe,
Earl Wesley Hildreth,	Harvey Walworth Taylor,
Elwood Simpson Johnson,	Everett William Thompson,
Thurston Allen Johnson,	Henry Chambers Trundle,
Bernard Aloysius Kosicki,	William Enos Wetzel,
Louis Onorato LaBella,	Laurence Ernest Wimbrow,
William Bellamy Young, Jr.	



The Degree of Master of Arts on examination was conferred on:

- Edwin Carl Anderson, B.S., 1920. Subject: Physics. Thesis:  
"The Tungsten Quenched Spark Transmitter."  
Earl Matthias Bilger, B.S., 1920. Subject: Chemistry. Thesis:  
"The Quantitative Determination of Carbon Monoxide."  
Tadashi Fujimoto, B.S. (Bates College), 1919. Subject: Physics.  
Thesis: "A Study of the Piezo-electric Reactions of a  
Quartz Resonator."  
Hugh Deal Hughes, B.A., 1920. Subject: Chemistry. Thesis:  
"The Preparation of B Phenylethyl Tertiary Butyl Car-  
binol."  
George Raymond Larkin, B.A., 1920. Subject: Economics.  
Thesis: "Competition as a Means of Social Control."  
Sidney Merritt Newhall, B.S., 1919. Subject: Psychology.  
Thesis: "The Modification of the Intensity of Sensation  
by Attention."

#### HONORARY DEGREES.

The Degree of Doctor of Divinity was conferred on:

- David Brewer Eddy, Associate Secretary of the American  
Board of Commissioners for Foreign Missions.  
Edward Laird Mills, Ph.B., 1898.  
Frank Sumner Townsend, B.A., 1885.

The Degree of Doctor of Civil Law was conferred on:

- Robert Newton Crane, B.A., 1867, King's Counsel, London,  
England.

The Degree of Doctor of Humane Letters was conferred on:

- Henry Osborn Taylor.

The Degree of Doctor of Laws was conferred on:

- Clinton DeWitt Burdick, B.A., 1886.  
William Ingraham Haven, B.A., 1877.  
Everett John Lake, Governor of Connecticut.  
Albert Barrett Meredith, B.A., 1895, Commissioner of Educa-  
tion of the State of Connecticut.  
Remsen Brinckerhoff Ogilby, President of Trinity College.

## PUBLICATIONS.

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**ALUMNI RECORD.**—Through the liberality of Orange Judd, M. A., a Biographical Record of the Alumni of the University was published in 1869. A fifth edition of this Record, revised and corrected, will be issued in January, 1922. This edition contains not only the record of alumni, revised and corrected to the date of publication, but also a list of all former students not graduates, with their residences, and such other information with reference to them as the most thorough search could obtain. It includes also a brief account of the honorary alumni and the members of the Faculty not graduates of Wesleyan. Copies of this edition may be had upon application to the librarian, W. J. James. The price of the Record, postage prepaid, is \$3.00.

An address list of the living graduates, non-graduates, and honorary alumni, together with a geographical list, is published annually by the Alumni Council as one number of the *Bulletin*. Information as to change of address should be sent to the Alumni Secretary, Mr. A. B. Haley, Middletown, Conn.

**BULLETIN.**—The *Bulletin* was first issued in 1888, and has since been published twice a year (usually in May and December), under the direction of a committee of the Faculty. It contains accounts of trustee and alumni meetings, lists of recent gifts, statements of the most urgent needs of the University, changes in the Faculty and courses of study, department notes, and various other matters of interest to the alumni and friends of the institution. The Annual Catalogue, and the Address List of Alumni, also published annually, appear as numbers of the *Bulletin*. The *Bulletin* is sent to the trustees and alumni, and may be obtained by other friends of the University upon application to the Dean.

**WINCHESTER MEMORIAL VOLUME.**—In June, 1921, a committee appointed by the Board of Trustees published a book of 346 pages with the title, A Memorial to Caleb Thomas Winchester. This volume contains the text of the six addresses

made at the complimentary dinner tendered Professor Winchester in June, 1919, two biographical sketches which appeared shortly after his death, and numerous memorial addresses, resolutions, and press notices. There is also an account of Professor Winchester as a public lecturer, together with a bibliography of his published writings, and a description of the various courses which he taught in Wesleyan University. There are six full-page illustrations. The book may be obtained for one dollar and a half from the Secretary of the Alumni Council, East Hall, Middletown.

**THE BENNETT LECTURES.**—The University purposes publishing the lectures which are delivered from year to year on the George Slocum Bennett Foundation. Two volumes of this series are now ready. The first, entitled *Steps in the Development of American Democracy*, is by Professor Andrew C. McLaughlin of the University of Chicago. The topics considered by Professor McLaughlin include: The Emergence of Principles in the Colonial Period; The Theories of the Revolution; The Formation of State Constitutions; The Critical Years After the Revolution; The Federal Constitution; Jeffersonian Democracy; Jacksonian Democracy; Slavery and Antislavery; The Developments of Recent Years; Individualism vs. Social Control; The Implications and Responsibilities of Democracy To-day.

The second volume, *The United States and Canada*, by Professor George M. Wrong of the University of Toronto, treats of: The Dominance of the English-speaking Peoples in America; The Creation of Two English-speaking States in America; The Growth of Feudalism in North America; Likenesses and Contrasts in the Federal Systems of the United States and Canada; The Place of Canada in the British Commonwealth; and The Future.

These two works are published by the Abingdon Press, New York, and can be obtained from booksellers at one dollar and a half each.

**WESLEY BICENTENNIAL.**—A memorial volume was issued early in 1904 containing a full record of the celebration of the bicentennial anniversary of the birth of John Wesley

by Wesleyan University at the Commencement of 1903. The book was printed by Theo. L. DeVinne & Co., of New York. It contains over 250 pages, and includes a general account of the celebration, the full text of all the addresses delivered, and an appendix giving the names of all committees, of the invited guests who were present, of all recipients of degrees, honorary and in course, and of nearly six hundred alumni who attended the celebration. It is illustrated also with several pictures of the college buildings and grounds, with two excellent portraits of John Wesley, and with portraits of the principal speakers. Applications for the memorial volume should be sent to the Librarian of Wesleyan University. Price \$1.50, postage prepaid.

SEVENTY-FIFTH ANNIVERSARY.—A memorial volume, descriptive of the celebration of the seventy-fifth anniversary of the founding of Wesleyan University, held during the Commencement week of 1906, was published in June, 1907. The volume contains a full account of all the proceedings, including the text of all the addresses, a list of the alumni attending the celebration, a list of degrees conferred, etc., and is illustrated with pictures relating to the history of the University. The historical address by Professor William North Rice and the pictures of the college, old and new, are of peculiar interest to all former students. The volume is published in a form in keeping with the interesting and valuable record it contains. Applications for this volume should be sent to the Librarian of Wesleyan University. Price one dollar, postage prepaid.

INSTALLATION VOLUME.—A volume entitled *The Installation of William Arnold Shanklin, L.H.D., LL.D.*, as Ninth President of Wesleyan University, was published in 1910. Besides an introductory account of the exercises, the book contains a verbatim report of all the speeches delivered at the various exercises of the day, reproductions of all programs and other printed matter connected with the occasion, and lists of the trustees, Faculty, delegates, invited guests, and alumni who were in attendance. A portrait of President Shanklin forms the frontispiece. The volume contains 154 pages and is neatly

bound in dark red cloth. Copies may be obtained from the Librarian of the University at one dollar each.

**NECROLOGY.**—A list of deceased graduates of the University is published annually in the Spring *Bulletin*. All persons who can supply information for future lists are urgently requested to communicate the same to Dean F. W. Nicolson.

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## EMPLOYMENT BUREAUS.

An employment bureau is maintained in the office of the Dean for the purpose of securing positions as teachers for graduates of the college. Those who wish to avail themselves of the opportunity thus offered are invited to register; and the alumni and friends of the college are urgently requested to inform the Dean of any vacancy coming to their notice which might be filled by a Wesleyan graduate.

An employment bureau is maintained by the Young Men's Christian Association through which needy undergraduates are aided in securing employment during the college year and the summer vacation. Those who wish to avail themselves of this opportunity are invited to register. Alumni and friends of the college are requested to inform the Secretary of the Association of any vacant positions which might be filled by Wesleyan men. No fees are charged in either bureau.

## THE ALUMNI COUNCIL.

The Alumni Council is composed of one representative each from the classes that have graduated, and of ten members at large, elected by the Council, none of whom may be members of the Board of Trustees or of the Faculty of the college.

This basis of organization makes the Council fairly representative of the entire body of the alumni and, at the same time, gives it a distinctive character, naturally sympathetic with the administration and with the undergraduates, yet independent of both, and with a view-point of its own.

The object of the organization is to strengthen the relations of the alumni and the University, and to bring all Wesleyan graduates and non-graduates into one compact body working for the interests of the institution.

The Council maintains offices in East Hall, with an efficient equipment at the service of the alumni, which provides a ready means of communication among the alumni themselves, and between the alumni, the undergraduates, and the authorities of the college.

### OFFICERS AND MEMBERS OF THE COUNCIL, 1921-22.

#### CHAIRMAN.

Edward L. Steele, '94, 902 Main St., Hartford.

#### VICE-CHAIRMAN.

Franklin T. Kurt, '95, 553 Boylston St., Boston, Mass.

#### SECRETARY.

A. B. Haley, '07, Room 2, East Hall, Middletown, Conn.

### EXECUTIVE COMMITTEE (Chairmen of Standing Committees).

F. I. Brown, '98,	Finance.
S. V. Coffin, '89,	Class Organizations.
C. F. Price, '02,	Publicity.
F. C. Brodhead, '11,	Alumni Associations.
C. H. Tryon, '05,	Undergraduate Activities.
G. L. Plimpton, '91,	Preparatory Schools.
W. A. Thompson, '97,	Athletics.

## MEMBERS AT LARGE.

W. F. Sheldon, '99,	R. B. Chamberlin, '09,
C. S. Neumann, '02,	E. D. Deremer, '10,
C. F. Price, '02,	F. C. Brodhead, '11,
K. M. Goode, '04,	G. G. Davidson, '13,
G. I. Bodine, Jr., '06,	A. I. Prince, '15.

## CLASS REPRESENTATIVES.

## CLASS.

1882 B. M. Gallien,  
 1886 J. C. Packard,  
 1887 E. S. Ninde,  
 1888 W. M. Cassidy,  
 1889 S. V. Coffin,  
 1890 W. W. Thompson,  
 1891 G. L. Plimpton,  
 1892 J. S. Pullman,  
 1893 G. H. Blakeslee,  
 1894 E. L. Steele,  
 1895 F. T. Kurt,  
 1896 W. H. Burgwin,  
 1897 W. A. Thompson,  
 1898 F. I. Brown,  
 1899 J. E. Tackaberry,  
 1900 W. MacNaughten,  
 1901 W. P. Ogden,  
 1902 R. A. Anderson,

## CLASS.

1903 H. H. Smith,  
 1904 L. De V. Day,  
 1905 C. H. Tryon,  
 1906 C. E. Hancock,  
 1907 W. C. North,  
 1908 R. W. Rice,  
 1909 H. S. Griffing,  
 1910 W. B. Holton, Jr.,  
 1911 F. T. Davis,  
 1912 H. V. Leonard,  
 1913 P. Burt,  
 1914 H. L. Pratt,  
 1915 F. B. Upham, Jr.,  
 1916 R. E. Baldwin,  
 1917 H. S. Baldwin,  
 1918 L. I. Pitt,  
 1919 A. Dodd,  
 1920 F. M. Davenport, Jr.,

1921 D. L. Hartman.

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## CALENDAR.

## 1921.

- Sept. 22. Thursday—Matriculation Service.  
Sept. 23. Friday, 7:50 A. M.—First term begins.  
Nov. 23. Wednesday, 12:00 M.—Thanksgiving vacation begins.  
Nov. 25. Friday, 2:00 P. M.—Thanksgiving vacation ends.  
Dec. 16. Friday, 5:00 P. M.—Christmas vacation begins.  
Last day for applying for winter special examinations.

## 1922.

## CHRISTMAS RECESS.

- Jan. 4. Wednesday, 7:50 A. M.—Christmas vacation ends.  
Jan. 26. Thursday—Mid-year examinations begin.  
Feb. 4. Saturday—Mid-year examinations end.  
Feb. 15. Wednesday—Last day for handing in Junior Exhibition essays.  
Feb. 17, 18. Friday, Saturday,—Introduction days.  
Mar. 21. Tuesday—Junior Exhibition.  
Mar. 20. Monday—Last day for applying for Junior honors.  
Apr. 12. Wednesday, 5:00 P. M.—Easter vacation begins.  
Last day for applying for spring special examinations.

## SPRING RECESS.

- Apr. 20. Thursday, 7:50 A. M.—Easter vacation ends.  
May 1. Monday—Last day for presenting prize essays.  
May 30. Tuesday—Memorial Day, a holiday.  
June 3. Saturday—Last day for completing work for the Master's degree, and for departmental honors.  
June 5. Monday—Annual examinations begin.  
June 14. Wednesday—Annual examinations end.  
June 16. Friday—Prize declamation contest.  
June 17. Saturday morning—Meeting of the Alumni Council.  
June 17. Saturday morning—Meeting of the Board of Trustees.  
June 17. Saturday morning—Class Day exercises.  
June 18. Sunday morning—Baccalaureate sermon.

- June 18. Sunday evening—University sermon.  
 June 19. Monday morning—Annual meeting of the Phi Beta Kappa Society.  
 June 19. Monday morning—COMMENCEMENT.  
 June 19. Monday afternoon—Alumni luncheon.  
 June 19. Monday afternoon—Social receptions by the college fraternities.  
 June 19-24. Examinations of the College Entrance Examination Board.

## VACATION OF THIRTEEN WEEKS.

- Sept. 15, 16, 18. Examination of candidates for admission.  
 Sept. 19. Tuesday—Fall special examinations begin.  
 Sept. 19. Tuesday—Registration of Freshmen.  
 Sept. 20. Wednesday—Registration of three upper classes.  
 Sept. 21. Thursday, 9:00 A. M.—Matriculation service.  
 Sept. 22. Friday, 7:50 A. M.—First term begins.  
 Oct. 10. Tuesday—Last day for applying for Senior honors.  
 Nov. 22. Wednesday, 12:00 M.—Thanksgiving vacation begins.  
 Nov. 27. Monday, 7:50 A. M.—Thanksgiving vacation ends.  
 Dec. 19. Tuesday, 5:00 P. M.—Christmas vacation begins.

## 1923. CHRISTMAS RECESS.

- Jan. 3. Wednesday, 7:50 A. M.—Christmas vacation ends.  
 Feb. 1. Thursday—Mid-year examinations begin.  
 Feb. 10. Saturday—Mid-year examinations end.  
 Mar. 28. Wednesday, 6:00 P. M.—Easter vacation begins.

## SPRING RECESS.

- Apr. 5. Thursday, 7:50 A. M.—Easter vacation ends.  
 June 4. Monday—Annual examinations begin.  
 June 13. Wednesday—Annual examinations end.  
 June 18. Monday morning—COMMENCEMENT.

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## CALENDAR

1922

1923

JANUARY

MAY

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JANUARY

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Vol. 16

NOVEMBER, 1922

No. 4

THE  
WESLEYAN UNIVERSITY  
BULLETIN

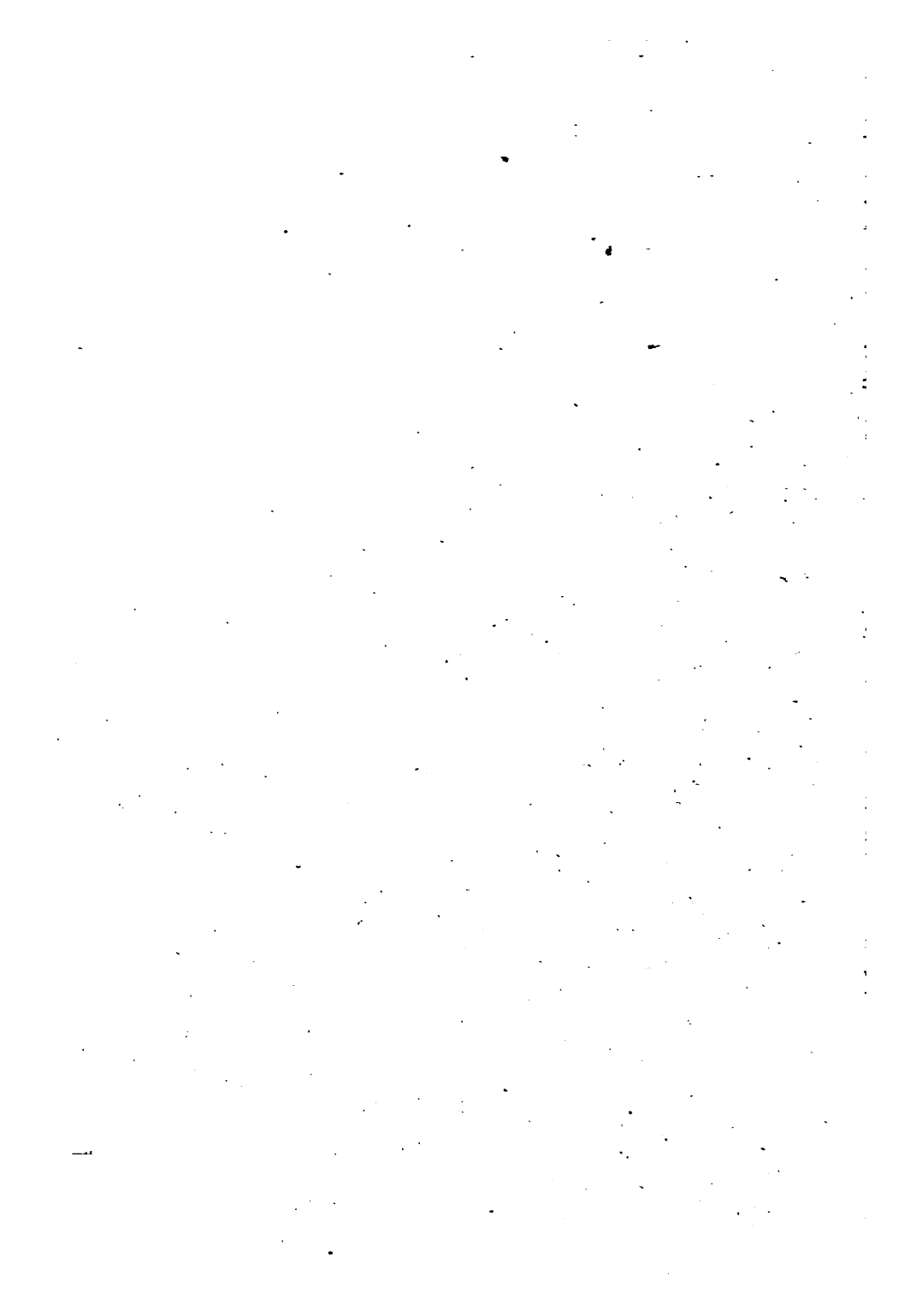


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1922-1923

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MIDDLETOWN, CONN.  
PUBLISHED BY THE UNIVERSITY  
1922



CATALOGUE

OF

WESLEYAN UNIVERSITY

1922-1923



MIDDLETOWN, CONN.  
MCMXXII

## THE WESLEYAN UNIVERSITY BULLETIN.

Published by the University five times a year, in May, June, September, November, and December. Entered as second-class mail matter, June 9, 1914, at the post-office at Middletown, Connecticut, under the Act of Congress of August 24, 1912.

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† With the exception of the President, the names are arranged in groups according to rank; in each group the order is that of graduation from college.

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‡‡ On leave of absence, second semester.

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† Frederick Otwell Anderson,	<i>Yonkers, N. Y.</i>	Δ Τ Δ <i>House.</i>
† Louis Ralph Arnold,	<i>Norwalk.</i>	Σ Ν <i>House.</i>
† Robert Thompson Banister,	<i>White Plains, N. Y.</i>	Δ Υ <i>House.</i>
† George Harvey Bickley, Jr.,	<i>Singapore, Malaysia.</i>	Δ Τ Δ <i>House.</i>
§ George Walker Bisset,	<i>Waterbury.</i>	Χ Ψ <i>Lodge.</i>
Willis Herbert Bowen,	<i>Brooklyn, N. Y.</i>	Γ Ψ <i>House.</i>
§ Robert Fortenbaugh Bowman,	<i>Philadelphia, Pa.</i>	Ψ Υ <i>House.</i>
† Radcliffe Wright Bristol,	<i>Meriden.</i>	Δ Τ Δ <i>House.</i>
† Maurice Lester Burrows,	<i>New York, N. Y.</i>	Χ Ψ <i>Lodge.</i>
Robert William Butler,	<i>Methuen, Mass.</i>	Δ Τ Δ <i>House.</i>
† Thomas William Cantwell, Jr.,	<i>Albany, N. Y.</i>	Α Δ Φ <i>House.</i>
§ Jay Edward Caster,	<i>Richmond, Va.</i>	Α Χ Ρ <i>House.</i>
† Henry Lloyd Churchill,	<i>White Plains, N. Y.</i>	29 Ν. Δ.
§ Seymour Lane Cone,	<i>Bound Brook, N. J.</i>	Β Θ Π <i>House.</i>
Edwin Arthur Crauston, Jr.,	<i>Pittsfield, Mass.</i>	Γ Ψ <i>House.</i>
Frank Slade Danzoll,	<i>Vineland, N. J.</i>	42 Ν. Δ.
† Henry Shenk Davis,	<i>Erie, Pa.</i>	Β Θ Π <i>House.</i>
Malvin Edward Davis,	<i>Noxen, Pa.</i>	Δ Υ <i>House.</i>
§ William Leon Day,	<i>Colchester.</i>	14 Ο. Η.
† Curtis Hazen Deming,	<i>White Plains, N. Y.</i>	Δ Τ Δ <i>House.</i>
† Victor Leonard Fox,	<i>Port Monmouth, N. J.</i>	Σ Ν <i>House.</i>
Richard Whitfield Freure,	<i>Brooklyn, N. Y.</i>	39 Ν. C.
† Alfred Kepner Fricke,	<i>Swarthmore, Pa.</i>	Ψ Υ <i>House.</i>
Fredric Worthen Frost, Jr.,	<i>Brooklyn, N. Y.</i>	Ψ Υ <i>House.</i>
§ Franklin Pierce Frye,	<i>Enfield, N. H.</i>	CC <i>House.</i>
† Theodore Fredric Goldthorpe,	<i>Somersville.</i>	CC <i>House.</i>
† Everett Wallace Graham,	<i>Springfield, Mass.</i>	Γ Ψ <i>House.</i>
† John Edward Gran,	<i>West Wareham, Mass. 133</i>	<i>College St.</i>
† Claude Robert Halford,	<i>Pittsfield, Mass.</i>	Χ Ψ <i>Lodge.</i>



NAMES.	RESIDENCES.	ROOMS.
† Samuel Jerome Hardy, Jr.,	<i>Brooklyn, N. Y.</i>	B Θ Π House.
Richard Pearson Hatfield,	<i>Scotch Plains, N. J.</i>	Δ Υ House.
† Willis Charles Hatfield,	<i>Concord, N. H.</i>	Δ Υ House.
Warren Clark Heidel,	<i>Middletown.</i>	Ψ Υ House.
Edward Barton Hills,	<i>Mill Hall, Pa.</i>	C C House.
Ernest Edward Howarth,	<i>Guilford.</i>	C C House.
† William Wendell Hunting,	<i>Albany, N. Y.</i>	Δ Κ Ε House.
† Frank Avery Ineson,	<i>Waterbury.</i>	C C House.
† Mylon Cecil Jacobs,	<i>Skowhegan, Me.</i>	Δ Τ Δ House.
Henry Johnson James,	<i>Provincetown, Mass.</i>	53 N. C.
John Joseph Jennings, Jr.,	<i>Newark, N. J.</i>	A X P House.
§ Henry Lawrence Jones,	<i>Wilkes-Barre, Pa.</i>	A Δ Φ House.
† Charles Augustine Kellogg,	<i>Hudson Falls, N. Y.</i>	Ψ Υ House.
† William Henry Kelly, Jr.,	<i>Albany, N. Y.</i>	A Δ Φ House.
§ Charles Wesley Ketter,	<i>Westwood, N. J.</i>	Δ Τ Δ House.
† Landrum Milton Knight,	<i>Lewiston, Me.</i>	C C House.
Edwin Blackwell Knowles, Jr.,	<i>Germantown, Pa.</i>	Ψ Υ House.
Leland Ellsworth LaGanke,	<i>East Cleveland, Ohio.</i>	A Δ Φ House.
Charles McLane Lester,	<i>Lakeville.</i>	Eclectic House.
† Frederick Earle Lord, Jr.,	<i>Warehouse Point.</i>	C C House.
§ Edward Chapman McEachran,	<i>Glens Falls, N. Y.</i>	Ψ Υ House.
John Hendy Maddaford,	<i>Honesdale, Pa.</i>	B Θ Π House.
† John Weld Markham,	<i>Guilford.</i>	64 N. C.
Waldo Burnett Miller,	<i>Swarthmore, Pa.</i>	30 N. D.
Allison Hoyt Mitchell,	<i>Taunton, Mass.</i>	A X P House.
Francis Keiter Moll,	<i>Pottsville, Pa.</i>	26 N. C.
† George Washington More, Jr.,	<i>Ridgewood, N. J.</i>	13 N. D.
Walton Lewis Multer,	<i>Kingston, N. Y.</i>	B Θ Π House.
Charles Lewis Murdock,	<i>New Haven.</i>	A Δ Φ House.
† Charles Francis Nettleship, Jr.,	<i>Newark, N. J.</i>	Σ Ν House.
† Morris Delfield Nordstrom,	<i>New Britain.</i>	16 N. C.
Ernest Dressel North, 2nd,	<i>Upper Montclair, N. J.</i>	Δ Υ House.
† Carl Walter Olson,	<i>Elmsford, N. Y.</i>	Δ Κ Ε House.
† Soren Douglas Rees,	<i>Minneapolis, Minn.</i>	Eclectic House.
† Floyd Clark Rule,	<i>Meriden.</i>	Σ Ν House.
† Victor Alexander Salloway,	<i>Maynard, Mass.</i>	A X P House.
Earl Russell Sandstrom,	<i>New Britain.</i>	X Ψ Lodge.
Charles Avery Sanford,	<i>Hadlyme.</i>	A X P House.

NAMES.	RESIDENCES.	ROOMS.
† Theophilus Karnaghan Seiberling,	<i>Akron, Ohio.</i>	A Δ Φ House.
Donald French Smith,	<i>York Village, Me.</i>	Γ Ψ House.
† Monroe William Smith,	<i>Glens Falls, N. Y.</i>	22 Church St.
† Malcolm Drake Spinning,	<i>Bloomfield, N. J.</i>	A X P House.
† Julian Kingsley Stevens,	<i>West Hartford.</i>	48 N. C.
† Philip John Stomberg,	<i>Middletown.</i>	275 William St.
Francis Cowles Strickland,	<i>Manchester.</i>	24 N. C.
† Zenas Monroe Sykes,	<i>Glen Ridge, N. J.</i>	Σ N House.
Rollin Tarleton,	<i>Nutley, N. J.</i>	Δ K E House.
Evan Russell Thomas,	<i>Brockton, Mass.</i>	B Θ Π House.
George Ross Thomas,	<i>Philadelphia, Pa.</i>	Δ T Δ House.
† John Cranwill Thompson,	<i>Greenwich.</i>	Ψ Υ House.
§ Marshall Lodge Umpleby,	<i>Uxbridge, Mass.</i>	145 Mt. Vernon St.
† Chester Herbert Walter,	<i>Lakewood, R. I.</i>	Δ Υ House.
† Mead Walworth,	<i>New York, N. Y.</i>	Σ N House.
Cutler DeLong West,	<i>Glens Falls, N. Y.</i>	X Ψ Lodge.
† Clarence Oliver Wheeler,	<i>Hammondsport, N. Y.</i>	C C House.
Francis Daniel Wiener,	<i>New York, N. Y.</i>	Eclectic House.
Edwin Whitmore Wilkinson,	<i>New York, N. Y.</i>	Δ Υ House.
† William Watson Woodford,	<i>Hartford.</i>	B Θ Π House.
† Robert Harold Wrubel,	<i>Middletown.</i>	21 Pearl St.
§ Tatsuzo Yamagata,	<i>Tokyo, Japan.</i>	7 O. H.

## SOPHOMORES—CLASS OF 1925.

NAMES.	RESIDENCES.	ROOMS.
† Herbert Warren Avery,	<i>Plainfield, N. J.</i>	X ♯ Lodge.
† James Stanley Ballard,	<i>Baltimore, Md.</i>	Γ ♯ House.
John Clarke Barber,	<i>Montclair, N. J.</i>	C C House.
† Avery Wells Barnes,	<i>Clinton.</i>	Δ Υ House.
Leonard Brothwell Beach,	<i>Elmhurst, N. Y.</i>	Eclectic House.
§ James Randolph Beard, Jr.,	<i>Brooklyn, N. Y.</i>	Σ N House.
Robert Powel Bedell,	<i>Floral Park, N. Y.</i>	Γ ♯ House.
§ Stephen Berrien,	<i>Montclair, N. J.</i>	Eclectic House.
Albert Cooke Bill, Jr.,	<i>Hartford.</i>	14 N. D.
† John Althaus Bliss,	<i>Brooklyn, N. Y.</i>	Σ N House.
† Paul Wesley Borthwick,	<i>Brooklyn, N. Y.</i>	14 N. D.
† George Mosher Bramann,	<i>Bridgeport.</i>	A X P House.
† Arthur Watson Bromage,	<i>Warehouse Point.</i>	C C House.
Lynn Harry Brown,	<i>Sayre, Pa.</i>	Γ ♯ House.
§ Douglas Holland Bullock,	<i>Cold Spring, N. Y.</i>	Δ K E House.
† Charles Wesley Burns, Jr.,	<i>Helena, Mont.</i>	Eclectic House.
Ernest Wilfred Bysshe,	<i>Paris, France.</i>	28 N. D.
Norman Carpenter,	<i>Germantown, Pa.</i>	Δ T Δ House.
§ Ralph William Carr,	<i>Brooklyn, N. Y.</i>	62 N. C.
† Walter Barney Chadwick,	<i>Newton Upper Falls, Mass.</i>	7 N. C.
† John Kinson Churchill,	<i>White Plains, N. Y.</i>	67 N. C.
† Harlan Way Clifton,	<i>Montclair, N. J.</i>	Δ T Δ House.
Frank Theodore Cloak,	<i>Philadelphia, Pa.</i>	C C House.
Churchill Ransom Coe,	<i>Stamford, N. Y.</i>	Δ Υ House.
† Howard Hendrick Culver,	<i>Chicopee Falls, Mass.</i>	A X P House.
§ Howard Houghton Cutting,	<i>Rockland, Mass.</i>	281 High St.
Stanley Irvin Davenport, Jr.,	<i>Plymouth, Pa.</i>	B Θ Π House.
† Clifton Harling Day,	<i>Melrose, Mass.</i>	Δ T Δ House.
Robert Runyon Diefendorf,	<i>East Orange, N. J.</i>	♯ Υ House.
§ Christian Justus Doenecke, Jr.,	<i>Brooklyn, N. Y.</i>	C C House.
† William Raymond Donnell,	<i>Elizabethton, Pa.</i>	Eclectic House.
Donald Morgan Doughty,	<i>Roslyn Heights, N. Y.</i>	65 N. C.
† Dudley Gorton Downing,	<i>Gloversville, N. Y.</i>	Σ N House.

NAMES.	RESIDENCES.	ROOMS.
† Herbert Daniel Drewes,	<i>Mamaroneck, N. Y.</i>	Σ N House.
† Wallace Earl Drummond,	<i>Forest Hills, N. Y.</i>	Δ T Δ House.
† Henry Benjamin Duncan,	<i>Monrovia, Liberia, W. Africa.</i>	11 O. H.
Theodore Beitël Dunn,	<i>Hackensack, N. J.</i>	Σ N House.
Julian Webb Edgcomb,	<i>Syracuse, N. Y.</i>	Δ K E House.
† George Washington Emerson,	<i>East Orange, N. J.</i>	B Θ Π House.
† Clifford Stuart Ensinger,	<i>New Rochelle, N. Y.</i>	Δ K E House.
† Earl William Flsoldorf,	<i>Philadelphia, Pa.</i>	C C House.
Donald Welch Fowler,	<i>Lebanon, N. H.</i>	Δ T Δ House.
† Everett Leon Francis,	<i>Middletown.</i>	50 S. Main St.
† Herman Mandel Freyberg,	<i>New Rochelle, N. Y.</i>	38 N. C.
† Henry Gallien, Jr.,	<i>Albany, N. Y.</i>	† Y House.
Jesse Charles Gearhart,	<i>Millerstown, Pa.</i>	A X P House.
Clarence McLean Gifford,	<i>Utica, N. Y.</i>	Eclectic House.
James Emery Greer,	<i>Mystic.</i>	C C House.
§ Austin West Gridley,	<i>Springfield, N. J.</i>	B Θ Π House.
Harold William Griffis,	<i>Gloversville, N. Y.</i>	71 N. C.
Ernest Hawkins,	<i>Brook Haven, N. Y.</i>	C C House.
† Charles Stuart Henderson,	<i>Farmington.</i>	56 N. C.
Kenneth Miller Hill,	<i>Noank.</i>	C C House.
† Bennethum Strong Hillegas,	<i>Harrisburg, Pa.</i>	Y. M. C. A.
Lawrence Britton Hillyer,	<i>W. New Brighton, N. Y.</i>	Eclectic House.
† Roswell Frederick Hinkelman,	<i>Waterbury.</i>	67 N. C.
§ Raleigh Adams Holden,	<i>West Roxbury, Mass.</i>	† Y House.
† Irvil Nathaniel Howard,	<i>Springfield, Mass.</i>	C C House.
Hillis Langhorne Howie,	<i>Indianapolis, Ind.</i>	† Y House.
Frederick George Hubach,	<i>Newark, N. J.</i>	42 N. C.
† Harvey King Hunsicker,	<i>Reading, Pa.</i>	† Y House.
George Albert Hurley,	<i>New York, N. Y.</i>	B Θ Π House.
† Floyd Marshall Ineson,	<i>Waterbury.</i>	67 N. C.
Carl Valdemar Johnson,	<i>Portland. 285 Main St., Portland.</i>	
Sidney Alexander Johnson,	<i>Bridgeport.</i>	Δ K E House.
Dayton Lewis Jones,	<i>Saratoga Springs, N. Y.</i>	C C House.
† Ralph William Jones,	<i>Saratoga Springs, N. Y.</i>	25 N. D.
Richard Leroy Jones,	<i>Springfield, Mass.</i>	B Θ Π House.
† Harvey Andrew Kuntzelman,	<i>Williamstown, Pa.</i>	C C House.
§ James Eveland Lemmerz,	<i>Jersey City, N. J.</i>	B Θ Π House.
§ Clifford Thomas Lent,	<i>Peekskill, N. Y.</i>	Δ K E House.

NAMES.	RESIDENCES.	ROOMS.
† Donald William Leonard,	<i>Newtonville, Mass.</i>	<i>C C House.</i>
† Robert Edwin Leonard,	<i>East Orange, N. J.</i>	<i>A Δ Φ House.</i>
† Harold Edward Lester,	<i>Newark, N. J.</i>	<i>Eclectic House.</i>
† Harold Reuben Lockhart,	<i>Bridgeport.</i>	<i>A Δ Φ House.</i>
§ Joseph Rippel Lockwood,	<i>Greenwich.</i>	<i>Δ T Δ House.</i>
† Bascom Bradshaw Lotspeich,	<i>Atlanta, Ga.</i>	<i>Δ T Δ House.</i>
Raymond Lounsbury,	<i>Tioga Center, N. Y.</i>	<i>Cromwell.</i>
† Warren Lozier,	<i>Newark, N. J.</i>	<i>Δ T Δ House.</i>
§ Theodore Cushing Lyman,	<i>Montclair, N. J.</i>	<i>Eclectic House.</i>
§ James Charles McDonough,	<i>Albany, N. Y.</i>	<i>Ψ Y House.</i>
† Marcus Wilson McGuire,	<i>Muskogee, Okla.</i>	<i>A Δ Φ House.</i>
† Thomas Norman Machemer,	<i>Royersford, Pa.</i>	<i>A X P House.</i>
Paul Marcus,	<i>New Rochelle, N. Y.</i>	<i>C C House.</i>
† Richard Barnett Maxwell,	<i>Winona, Minn.</i>	<i>Ψ Y House.</i>
† Spencer Barrett Meredith,	<i>Hartford.</i>	<i>Δ T Δ House.</i>
Samuel Marvin Middlebrook,	<i>Willton.</i>	<i>110 Mt. Vernon St.</i>
† William Buchanan Millar, Jr.,	<i>Upper Montclair, N. J.</i>	<i>Ψ Y House.</i>
† John Porter Mills,	<i>Brooklyn, N. Y.</i>	<i>77 N. C.</i>
Charles Robert Mingins,	<i>Methuen, Mass.</i>	<i>C C House.</i>
† Joseph Theodore Mirtl,	<i>West Willington.</i>	<i>Ψ Y House.</i>
§ Harold Moss,	<i>Bridgeport.</i>	<i>A X P House.</i>
Zenas Franklin Neumeister,	<i>Dallon, Mass.</i>	<i>71 N. C.</i>
† Willis Durell Northrup,	<i>Carmel, N. Y.</i>	<i>I O. H.</i>
John Oddy,	<i>Skowhegan, Me.</i>	<i>A, N. D.</i>
Aaron Joseph Palmer,	<i>Middletown. 183 Main St., S. Farms.</i>	
† Charles Byron Parbury,	<i>New Rochelle, N. Y.</i>	<i>42 N. D.</i>
† Merrill Reeves Patterson,	<i>Albany, N. Y.</i>	<i>Δ K E House.</i>
† Herbert Minty Peterson,	<i>Devon.</i>	<i>Eclectic House.</i>
† Bertram Lee Pickard,	<i>New York, N. Y.</i>	<i>Δ Y House.</i>
† William James Pilat,	<i>New York, N. Y.</i>	<i>Σ N House.</i>
Morris Poliner,	<i>Middletown.</i>	<i>546 Main St.</i>
† George Forbes Porter,	<i>Barre, Mass.</i>	<i>A X P House.</i>
† Russell Diven Rappel,	<i>Lynbrook, N. Y.</i>	<i>36 N. C.</i>
† Robert Irving Reynolds,	<i>Petersburg, N. Y.</i>	<i>Δ K E House.</i>
† Raymond Stewart Riday,	<i>Germantown, Pa.</i>	<i>Ψ Y House.</i>
† William Ashton Roberts,	<i>Newark, N. J.</i>	<i>Ψ Y House.</i>
† Walter Stanton Root,	<i>East Berlin.</i>	<i>Γ Ψ House.</i>
† Harold Sanderson,	<i>North Abington, Mass.</i>	<i>Δ Y House.</i>

NAMES.	RESIDENCES.	ROOMS.
† Merritt Pardee Sarles,	<i>Mt. Kisco, N. Y.</i>	Δ Y House.
† Rexford Nichols Saxton,	<i>Uxbridge, Mass.</i>	CC House.
§ Howard Alvin Schweiker,	<i>Albany, N. Y.</i>	Δ K E House.
† Edwin Palmer Scriggins,	<i>East Orange, N. J.</i>	B Θ Π House.
Franklin Adolph Seiler,	<i>New York, N. Y.</i>	B Θ Π House.
† Milton Leonard Severance,	<i>Easthampton, Mass.</i>	Α Δ Φ House.
George Anderson Shipman,	<i>Saratoga Springs, N. Y.</i>	Σ N House.
§ John Stanley Sills,	<i>Dixfield, Me.</i>	Σ N House.
§ Henry Davis Silverman, Jr.,	<i>East Orange, N. J.</i>	X † Lodge.
† Max Louis Slutzky,	<i>Middletown.</i>	184 Prospect St.
† Calvin Sidney Smith,	<i>Middletown.</i>	51 Park Place.
Standish Oscar Smith,	<i>Philadelphia, Pa.</i>	† Y House.
Robert McConnell Snodgrass,	<i>East Orange, N. J.</i>	Α Δ Φ House.
Willard Benjamin Spalding,	<i>Watertown, Mass.</i>	Δ Y House.
§ Henry Graham Statham,	<i>Rutland, Vt.</i>	36 N. D.
† Harold Frederick Strohson,	<i>Lynbrook, N. Y.</i>	36 N. C.
† Theodore Roosevelt Studwell,	<i>Brooklyn, N. Y.</i>	Δ T Δ House.
† Donald Balch Summers,	<i>Maplewood, N. J.</i>	Σ N House.
§ Thomas Ross Sutton,	<i>Prattsville, N. Y.</i>	Δ Y House.
Joseph Raymond Swain,	<i>Ossining, N. Y.</i>	Α Δ Φ House.
Arthur Carlyle Talmadge,	<i>Springfield, Mass.</i>	Eclectic House.
§ Levergne Andrus Taylor,	<i>Meriden.</i>	Α Δ Φ House.
† Harold Eben Terry,	<i>Waterbury.</i>	Α X P House.
Frederick Chynoweth Thomas, Jr.,	<i>Philadelphia, Pa.</i>	Δ T Δ House.
Rupert Willis Thorpe,	<i>Hoosick Falls, N. Y.</i>	48 N. D.
Samuel Herbert Turkington,	<i>Three Rivers, Mass.</i>	9 N. D.
† Harold Evans Ulland,	<i>Cincinnati, O.</i>	Α Δ Φ House.
† John Hawthorne Van Surdam,	<i>Hoosick Falls, N. Y.</i>	Δ K E House.
James Joseph Walsh,	<i>Meriden. 375 Center St., Meriden.</i>	
Allyn Andrews Walters,	<i>Binghamton, N. Y.</i>	41 N. D.
§ Holly Scofield Weed,	<i>White Plains, N. Y.</i>	Δ T Δ House.
§ John Cecil Rushworth Whiteley,	<i>Philadelphia, Pa.</i>	† Y House.
† John Bayard Wight, Jr.,	<i>Hartford.</i>	Σ N House.
† Dwight Hodson Woods,	<i>Greenwich.</i>	98 C. N.
Fred Edward Ziegler,	<i>New York, N. Y.</i>	X † Lodge.

## FRESHMEN—CLASS OF 1926.

NAMES.	RESIDENCES.	ROOMS.
Alonzo William Anderson,	<i>Tarrytown, N. Y.</i>	C, N. D.
Harry Eugene Bach, Jr.,	<i>Danielson.</i>	52 N. D.
† Theodore Haddon Ball,	<i>Ridgewood, N. J.</i>	74 N. C.
† Duane Clayton Barnes,	<i>Richford, Vt.</i>	18 O. H.
§ Will Campbell Beach,	<i>Upper Montclair, N. J.</i>	50 N. D.
Daniel Nichols Beers,	<i>Bridgeport.</i>	46 N. C.
† Arsen Benneyan,	<i>White Plains, N. Y.</i>	47 N. D.
James Russell Bickford,	<i>Northwood Narrows, N. H.</i>	87 N. C.
† George Huntington Blackett,	<i>Newton, Mass.</i>	41 N. C.
Harry Mitchell Blair, Jr.,	<i>New York, N. Y.</i>	C, N. D.
† John Joseph Blust,	<i>Brooklyn, N. Y.</i>	43 N. D.
Edward Brown Bosworth,	<i>Barre, Vt.</i>	255 William St.
Robert Methuen Boyd,	<i>Upper Montclair, N. J.</i>	2 O. H.
† George Edward Boynton,	<i>Brooklyn, N. Y.</i>	3 N. D.
† Harry Burdette Bradbury,	<i>New Britain.</i>	100 N. C.
† William Richard Braden,	<i>Sewickley, Pa.</i>	45 N. D.
Williston Loggie Bradway,	<i>Monson, Mass.</i>	35 N. C.
† Elwood Wayne Brant,	<i>East Orange, N. J.</i>	21 N. C.
† Harold Roy Brennan,	<i>Chelsea, Mass.</i>	43 N. C.
† Harry Tailor Brisbin,	<i>Omaha, Nebr.</i>	Δ T Δ House.
George Milton Brodhead, Jr.,	<i>Philadelphia, Pa.</i>	7 N. D.
† Richard Albert Edward Brooks,	<i>Karachi, India.</i>	19 O. H.
† Robert Romano Ravi Brooks,	<i>Colchester.</i>	32 N. C.
Edward Douglass Burdick,	<i>Hackensack, N. J.</i>	94 N. C.
Harold Carlson,	<i>Middletown. 105 High St., Farm Hill.</i>	
† Hilton Thomas Carmichael,	<i>New Haven.</i>	47 N. D.
† Philip House Clary,	<i>White Plains, N. Y.</i>	10 N. D.
† Albert E. Cleghorn,	<i>Brooklyn, N. Y.</i>	80 N. C.
† Raymond Cushman Clinchy,	<i>Yonkers, N. Y.</i>	60 N. C.
George Pillsbury Cofran,	<i>Suncook, N. H.</i>	87 N. C.
† Ethan Theodore Colton, Jr.,	<i>New York, N. Y.</i>	9 N. C.
Roger Conant,	<i>Canterbury, N. H.</i>	12 O. H.

NAMES.	RESIDENCES.	ROOMS.
† James Joseph Connors, Jr.,	<i>Albany, N. Y.</i>	D, N. D.
† Howard Coonley, Jr.,	<i>Boston, Mass.</i>	† Y House.
† Franklin Dexter Crosby,	<i>Danielson.</i>	52 N. D.
† Palmer Alexander Crowell,	<i>South Orange, N. J.</i>	11 N. D.
§ Wade Wendton Dauch,	<i>Sandusky, O.</i>	D, N. D.
† Louis DeAngelis,	<i>New Haven.</i>	8 N. C.
§ Lewis Thompson Decker,	<i>Bernardsville, N. J.</i>	A Δ Φ House.
† Maximilian John deRochemont, Jr.,	<i>New Rochelle, N. Y.</i>	96 N. C.
† Myron Bradford Diggin,	<i>Matawan, N. J.</i>	11 N. C.
Ross Nelson Dougherty,	<i>Brooklyn, N. Y.</i>	1 N. D.
Paul Franklin Douglass,	<i>Glens Falls, N. Y.</i>	31 N. C.
† Eugene John Dowling,	<i>Middletown.</i>	Staddle Hill.
William Warren Dunn,	<i>Gardner, Mass.</i>	4 N. D.
† Forest Porter Eastman,	<i>South Norwalk.</i>	46 N. C.
James Halsted Ewing,	<i>New York, N. Y.</i>	41 N. D.
John Hiram Fasnacht,	<i>Lititz, Pa.</i>	5 N. C.
† Harold Brodhead Flagler,	<i>Stroudsburg, Pa.</i>	52 N. C.
† Albert Arden Flint,	<i>Albany, N. Y.</i>	Δ K E House.
§ Enoch Justus Flygare,	<i>New York, N. Y.</i>	43 N. D.
† Davis Forrest Foljambe,	<i>Los Angeles, Cal.</i>	9 N. D.
† Arthur Groht Follmer,	<i>Tenafly, N. J.</i>	33 N. D.
† Howell Dunning Freeman,	<i>Hartford.</i>	5 N. C.
† Berlin Carson French,	<i>Meriden.</i>	16 O. H.
† Lincoln Everett Frye,	<i>Lawrence, Mass.</i>	43 N. C.
† Joseph Boies Fuller,	<i>Montclair, N. J.</i>	2 O. H.
† Philip Lyle Gamble,	<i>Pawtucket, R. I.</i>	35 N. D.
Edwin Humes Garber,	<i>Philadelphia, Pa.</i>	57 N. C.
† Howard Lockwood Giles,	<i>New York, N. Y.</i>	D, N. D.
† Herbert Louis Ginsberg,	<i>New Haven.</i>	20 O. H.
§ Dudley Trenchard Graham,	<i>Buffalo, N. Y.</i>	45 N. D.
† George Valentine Gress,	<i>Forest Hills, N. Y.</i>	56 N. D.
† Robert Ross Habberley,	<i>Melrose, Mass.</i>	81 N. C.
† Holman Henry Hall,	<i>South Willington.</i>	89 N. C.
† Lloyd Heywood Hall,	<i>Stamford.</i>	X † Lodge.
† Sanford Loomis Hammond,	<i>Brooklyn, N. Y.</i>	A Δ Φ House.
§ Victor Wilson Harrell,	<i>New York, N. Y.</i>	59 N. C.
Winfield George Harrison,	<i>Springfield, Mass.</i>	56 N. D.
† Hermon Chapin Harvey,	<i>Amherst, Mass.</i>	48 N. D.



NAMES.	RESIDENCES.	ROOMS.
† John Dennison Hecox,	<i>Albany, N. Y.</i>	Δ K E House.
† James Albert Hendley,	<i>Middletown. 5 Front St., So. Farms.</i>	
† Herbert Hendrickson,	<i>Babylon, N. Y.</i>	49 N. D.
† Harrison Sherwin Henry,	<i>Mount Vernon, N. Y.</i>	27 N. C.
† Roland Wood Hess,	<i>Ulrica, N. Y.</i>	96 N. C.
Gordon Green Hill,	<i>New York, N. Y.</i>	19 O. H.
† George Byron Hogaboom, Jr.,	<i>New Britain.</i>	91 N. C.
½ Welles Everett Holmes, Jr.,	<i>Newton, Mass.</i>	46 N. D.
William Lincoln Holmes,	<i>Wyandanch, N. Y.</i>	9 O. H.
† George Dean Horr,	<i>Needham, Mass.</i>	92 N. C.
† Leslie Enders Houck,	<i>Gloversville, N. Y.</i>	70 N. C.
§ Harold Amasa Howard,	<i>Wethersfield.</i>	85 N. C.
† Hamilton Colby Hoyt,	<i>Monticello, N. Y.</i>	4 N. C.
Martin Stewart Huey,	<i>Waterbury.</i>	81 N. C.
§ Robert Malcolm Hunter,	<i>New Haven.</i>	55 N. D.
Edward Alfred Jacobson,	<i>Ossining, N. Y.</i>	10 O. H.
½ George Vreeland Johnson,	<i>Brooklyn, N. Y.</i>	50 N. D.
½ Lawrence Henry Hitch Johnson,	<i>Boston, Mass.</i>	22 N. D.
§ George Bennett Jones,	<i>Wilkes-Barre, Pa.</i>	51 N. D.
§ Robert Archie Jones, Jr.,	<i>Thoroughfare, Va. 51 William St.</i>	
Robert Jordan,	<i>Cape Elizabeth, Me.</i>	33 N. C.
Willard Velsor Kaylor,	<i>Cold Spring Harbor, N. Y.</i>	13 N. C.
† Everett Lorin Keeney,	<i>Meriden.</i>	15 N. D.
§ Hermann Hans Kind,	<i>New York, N. Y.</i>	X ♀ Lodge.
† Harold John Knoepfel,	<i>New York, N. Y.</i>	A Δ ♀ House.
† Frederick Christian Koch, Jr.,	<i>Brooklyn, N. Y.</i>	77 N. C.
† Franklin Thorndike Kurt,	<i>West Newton, Mass.</i>	10 N. D.
§ Willard Carpenter Kynett,	<i>Philadelphia, Pa.</i>	6 N. D.
† Frank Wesley Laue,	<i>Kent's Hill, Me.</i>	29 N. C.
† Herbert Irving Lee, Jr.,	<i>New Haven.</i>	10 N. C.
John Davis Leland,	<i>Boston, Mass.</i>	22 N. D.
† John Russell Little,	<i>New York, N. Y.</i>	B, N. D.
Horace Jackson Littlefield,	<i>Lynn, Mass.</i>	50 N. C.
† Andrew Longacre,	<i>Yonkers, N. Y.</i>	83 N. C.
† Elmer William Lonsdale,	<i>South Orange, N. J.</i>	11 N. D.
† Porter Davis Lord,	<i>Barre, Vt.</i>	255 William St.
Leigh Melven Lott,	<i>Meshoppen, Pa.</i>	10 N. C.
† James Kenneth Loughry,	<i>Brooklyn, N. Y.</i>	35 N. D.

NAMES.	RESIDENCES.	ROOMS.
† Elmore Brown Lyford,	<i>Bridgeport.</i>	52 N. D.
§ Hector Hitchings Lyman,	<i>Upper Montclair, N. J. Eclectic House.</i>	
† Arthur McDonald,	<i>Middletown. 343 Washington St.</i>	
Paul Simpson McElroy,	<i>Chicopee Falls, Mass.</i>	4 N. D.
† Walter Dixon McElroy,	<i>McKeesport, Pa.</i>	20 N. C.
† Mark Albert McIntyre,	<i>Brookline, Mass.</i>	3 N. D.
† Ernest Barton McLane,	<i>Cromwell.</i>	X † Lodge.
† Edward Smith Magowan,	<i>Philadelphia, Pa.</i>	7 N. D.
Edward Wilbur Manchester,	<i>Winsled.</i>	27 N. D.
† John LeFoy Manning,	<i>East Orange, N. J.</i>	47 N. D.
† John Walker Maroney,	<i>Hartford.</i>	34 N. D.
Daniel John Marston,	<i>Yakima, Wash.</i>	29 N. C.
† Wales Cumberland Martindale, Jr.,	<i>Farmington, Mich.</i>	43 N. D.
† Burdett Frederick Maue,	<i>Cincinnati, O.</i>	54 N. D.
§ Alfred Gilman Scamman Moody,	<i>Brooklyn, N. Y.</i>	48 N. D.
† Lionel Vail Moore,	<i>Torrington.</i>	49 N. D.
† Byron Latimer Morrison,	<i>Hempstead, N. Y.</i>	B, N. D.
† John Albert Morrow,	<i>West Pawlet, Vt.</i>	33 N. C.
† Albion Harold Mosher,	<i>Portland, Me.</i>	Δ T Δ House.
† William Schroeder Neebe,	<i>Meriden. 81 Parker Ave., Meriden.</i>	
† Martin Herman Nelson,	<i>South Orange, N. J.</i>	73 N. C.
† Philip Lawrence Nichols,	<i>Saratoga Springs, N. Y.</i>	100 N. C.
Allyn Palmer Niles,	<i>Oneonta, N. Y.</i>	12 N. D.
† Lyman Emerson Nivling,	<i>Newton Center, Mass.</i>	32 N. D.
† Norman Norton,	<i>Mount Hermon, Mass.</i>	9 N. C.
† Russell Lambert Opdyke,	<i>Hartford.</i>	2 N. D.
† Malcolm McBride Panton, Jr.,	<i>Westfield, N. J.</i>	9 N. D.
† William Weston Park,	<i>Elizabeth, N. J.</i>	44 N. D.
Everton Harry Parkinson,	<i>Lawrence, Mass.</i>	17 O. H.
† Gordon Shaler Partridge,	<i>Glens Falls, N. Y.</i>	46 N. D.
† Irving David Peisner,	<i>Middletown.</i>	43 Main St.
† William Bacheller Petermann,	<i>Cincinnati, O.</i>	44 N. D.
† Herbert Minty Peterson,	<i>New Haven.</i>	X † Lodge.
§ George Sawyer Pettee,	<i>Hartford.</i>	95 N. C.
† Percy Mylchreest Phelps,	<i>Middletown.</i>	28 Brainerd Ave.
† Harry Hungerford Spooner Phillips, Jr.,	<i>New York, N. Y. Eclectic House.</i>	
Wendell West Phillips,	<i>Philadelphia, Pa.</i>	69 N. C.

NAMES.	RESIDENCES.	ROOMS.
† Arthur Nichols Piper,	<i>Hackensack, N. J.</i>	94 N. C.
Gordon Alvord Piper,	<i>Stamford.</i>	27 N. D.
† Harold Frederick Plaisted,	<i>Hudson Falls, N. Y.</i>	X † Lodge.
† Ralph Pomeroy,	<i>Tarrytown, N. Y.</i>	1 N. D.
† Malcolm Emery Potter,	<i>Glens Falls, N. Y.</i>	44 N. D.
† Edgar Kenan Price,	<i>Port Chester, N. Y.</i>	86 N. C.
† Frederick Charles Prophett,	<i>Suffield.</i>	34 N. D.
† Jesse Russell Radford,	<i>Greenwich.</i>	23 N. C.
† William Frederick Ranscht,	<i>White Plains, N. Y.</i>	53 N. D.
§ Spencer Warel Reeder,	<i>Toledo, O.</i>	51 N. C.
Paul Arthur Reynolds,	<i>Newton, Ia.</i>	47 N. C.
Francis Lee Rhodes,	<i>Paterson, N. J.</i>	55 N. D.
Howard Leonard Rich,	<i>Newton, Mass.</i>	32 N. D.
Herbert Montague Richards,	<i>Honolulu, T. H.</i>	54 N. D.
† Cleaveland Blanchard Robbins,	<i>Fair Haven, Vt.</i>	57 N. C.
† Franklin French Robinson,	<i>Hampton, Ia.</i>	2 N. D.
† Martin Lewis Roth,	<i>Roosevelt, N. J.</i>	20 O. H.
Hermon Elsesser Rudolph,	<i>Astoria, N. Y.</i>	59 N. C.
§ Lewis John Ryman,	<i>New Haven.</i>	55 N. D.
John Burton St. John,	<i>Montclair, N. J.</i>	83 N. C.
† Warren Mason Schwegel,	<i>Richmond Hill, N. Y.</i>	21 N. D.
George Edward Shattuck,	<i>Norristown, Pa.</i>	15 N. C.
† Charles Edward Shippey,	<i>Mount Vernon, N. Y.</i>	2 N. D.
Connie Clinton Simmons,	<i>Canandaigua, N. Y.</i>	20 N. C.
Albert Scott Smith,	<i>Middletown.</i>	50 Hamlin St.
§ Richard Morse Smith,	<i>White Plains, N. Y.</i>	10 N. D.
† Rhey Burrows Snodgrass,	<i>East Orange, N. J.</i>	51 N. D.
† Robert John Starr,	<i>East Hampton.</i>	51 N. D.
Albert Edgar Stephan,	<i>Washington, D. C.</i>	60 N. C.
† Richard Hebble Stewart,	<i>Elmhurst, N. Y.</i>	3 O. H.
† Charles Drinkwater Storer,	<i>Richmond Hill, N. Y.</i>	21 N. D.
† John Stothers,	<i>New York, N. Y.</i>	69 N. C.
† Lewis Gordon Thompson,	<i>Greenwich.</i>	1 N. D.
† Edward Moulton Thorndike,	<i>New York, N. Y.</i>	30 N. C.
† John Butler Tompkins,	<i>East Orange, N. J.</i>	13 N. C.
Roger Lamport Treat,	<i>New Britain.</i>	89 N. C.
† Judson Frederick Howe Turton,	<i>White Plains, N. Y.</i>	53 N. D.
Edward Arthur Tyler,	<i>Bridgeport.</i>	24 N. D.



## SUMMARY.

GRADUATE STUDENTS,	-	-	-	-	-	-	-	-	-	15
SENIORS,	-	-	-	-	-	-	-	-	-	80
JUNIORS,	-	-	-	-	-	-	-	-	-	92
SOPHOMORES,	-	-	-	-	-	-	-	-	-	144
FRESHMEN,	-	-	-	-	-	-	-	-	-	204
Total,	-	-	-	-	-	-	-	-	-	535

## CLASSIFICATION BY RESIDENCE.

## UNITED STATES.

New York,	-	157	Maryland,	-	3	Georgia,	-	1
Connecticut,	-	132	Rhode Island,	-	3	District of		
New Jersey,	-	65	Iowa,	-	3	Columbia,	-	1
Massachusetts,	-	59	Minnesota,	-	2	Oregon,	-	1
Pennsylvania,	-	58	Indiana,	-	2	California,	-	1
Maine,	-	9	Montana,	-	2	Washington,	-	1
Vermont,	-	9	Virginia,	-	2	Oklahoma,	-	1
Ohio,	-	7	Michigan,	-	1	Territory of		
New Hampshire,	-	6	Nebraska,	-	1	Hawaii,	-	1

## FOREIGN COUNTRIES.

Canada,	-	1	West Africa,	-	1	India,	-	1
Malaysia,	-	1	France,	-	1	Japan,	-	1
Syria,	-	1						

Total, - - - - - 535

## GENERAL STATEMENT.

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**Courses of Study.**—The College presents to its undergraduates the option of three parallel courses of study, each extending through four years, and leading respectively to the degrees of Bachelor of Arts, Bachelor of Philosophy, and Bachelor of Science. Students in each of the courses are required to take English in the Freshman year, and physical education in each of the first three years. Candidates for the B. A. degree must take a three-hour course in either Latin or Greek, and two three-hour courses in either German or French, if not presented for admission, unless the student takes both Latin and Greek. Candidates for the Ph. B. degree must take two three-hour courses in both German and French, if not presented for admission; a three-hour course each in logic and psychology, in history, and in economics; and a three-hour course in mathematics, if not presented for admission. Candidates for the B. S. degree must take two three-hour courses in both German and French, if not presented for admission, a three-hour course in mathematics, and a three-hour course in in either physics or chemistry. The remainder of the work for the first two years must be distributed among certain departments of study, in accordance with various regulations which are intended to secure generalization. For the last two years the student must take nine hours of a major study, around which shall be arranged six other hours of work, thus forming a concentration group. The remaining work of the last two years is elective.

**Special Courses.**—Students over twenty-one years of age who do not desire to complete any of the foregoing courses may receive instruction in such studies as they may select, provided they prove themselves, upon examination, qualified to pursue them with advantage. It should, however, be understood that this provision is intended for the benefit, not of those students who are incompetent to take one of the regular courses, but of

those who have already obtained a preliminary education so thorough as to enable them to pursue with advantage extended courses of study in particular departments. Such special students will be expected to attend all exercises assigned them, and will be subject to all the general rules of the college.

**Graduate Studies.**—Extended instruction is given to those who wish to pursue graduate courses of study in any of the departments. These courses are intended for those who do not desire to become candidates for the Master's degree, as well as for those who apply for admission to candidacy for such degree. The work of such students, whether candidates for a degree or not, is under the direction of the Committee on Graduate Instruction. The work of a graduate student may consist of undergraduate courses which he has not already completed, or work outside the curriculum assigned by his instructors, or both.

## REQUIREMENTS FOR ADMISSION.

For admission without condition to the B. A. course the candidate must secure credit for  $14\frac{1}{2}$  units, a unit representing a year's work in a secondary school with four or five periods a week, and constituting approximately a quarter of a full year's work. The requirement for admission to the Ph. B. or the B. S. course is 15 units. Not more than four units of credit will be allowed in any subject.

**B. A. DEGREE.**—Candidates for the B. A. degree must present English, 3 units, Elementary Algebra,  $1\frac{1}{2}$  or 2 units, Plane Geometry, 1 unit, and either Latin, 4 units, or Greek, 3 units; making a total of  $8\frac{1}{2}$  to 10 units. The remaining units to make up a total of  $14\frac{1}{2}$  may be selected from any of those specified below, but candidates are strongly advised to include Ancient History in their choice.

**PH. B. or B. S. DEGREE.**—Candidates for the Ph. B. or B. S. degree must present English, 3 units, Elementary Algebra,  $1\frac{1}{2}$  or 2 units, Plane Geometry, 1 unit, and either four units of foreign languages, or three units of a modern language; making a total of  $8\frac{1}{2}$  to 10 units. The remaining units to make up a total of 15 may be selected from any of those specified below.

### SCALE OF VALUES.

	Units.
English, 4 years, - - - - -	3
Latin, 2 years, - - - - -	2
3rd year, - - - - -	1
4th year, - - - - -	1
Greek, 2 years, - - - - -	2
3rd year, - - - - -	1
German—Elementary, 2 years, - - - - -	2
Intermediate, 3rd year, - - - - -	1
French—Elementary, 2 years, - - - - -	2
Intermediate, 3rd year, - - - - -	1



† Spanish—Elementary, 2 years, - - -	2
Intermediate, 3rd year, - - -	1
History—Ancient History, - - -	1
Mediaeval and Modern History, -	$\frac{1}{2}$ or 1 *
Modern History, - - -	1
English History, - - -	$\frac{1}{2}$ or 1 *
American History, - - -	$\frac{1}{2}$ or 1 *
Mathematics—Algebra to Quadratics, - -	1
Quadratics and beyond, - -	$\frac{1}{2}$ or 1 *
Plane Geometry, - - -	1
Solid Geometry, - - -	$\frac{1}{2}$
Advanced Algebra, - - -	$\frac{1}{2}$
Plane Trigonometry, - - -	$\frac{1}{2}$
Physics, theoretical and practical, - -	1
Chemistry, theoretical and practical, - -	1
Physical Geography, - - -	$\frac{1}{2}$ or 1 *
Biology, - - -	$\frac{1}{2}$ or 1 *

## REQUIREMENTS IN DETAIL.

### ENGLISH.

The candidate may choose between two plans for preparation and examination, the Restrictive and the Comprehensive. If the Comprehensive plan is chosen, the examination must be taken with the College Entrance Examination Board in June.

#### I. REQUIREMENTS UNDER THE RESTRICTIVE PLAN.

1. Habits of correct, clear, and truthful expression. This part of the requirement calls for a carefully graded course in oral and written composition, and for instruction in the practical essentials of grammar, a study which ordinarily should be reviewed in the secondary school. In all written work constant attention should be paid to spelling, punctuation, and good usage in general as distinguished from current errors. In all oral work there should be constant insistence upon the elimination of such elementary errors as personal speech-defects, foreign accent, and obscure enunciation.

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† Students offering two modern languages for admission are advised to choose German and French.

2. Ability to read with intelligence and appreciation works of moderate difficulty; familiarity with a few masterpieces. This part of the requirement calls for a carefully graded course in literature. Two lists of books are provided from which a specified number of units must be chosen for reading and study. The first, designated as the A List, contains selections appropriate for the earlier years in the secondary school. These should be carefully read, in some cases studied, with a measure of thoroughness appropriate for immature minds. The second, designated as the B List, contains selections for the closer study warranted in the later years. The progressive course formed from the two lists should be supplemented, at least by home reading on the part of the pupil and by class-room reading on the part of pupils and instructor. It should be kept constantly in mind that the main purpose is to cultivate a fondness for good literature and to encourage the habit of reading with discrimination.

#### THE A LIST.

From each group two selections are to be made, except that for any book in group V a book from any other may be substituted.

GROUP I.—Dickens: *A Tale of Two Cities*; George Eliot: *Silas Marner*; Scott: *Quentin Durward*; Stevenson: *Treasure Island* or *Kidnapped*; Hawthorne: *The House of the Seven Gables*.

GROUP II.—Shakespeare: *Merchant of Venice*, *Julius Caesar*, *King Henry V*, *As You Like It*.

GROUP III.—Scott: *The Lady of the Lake*; Coleridge: *The Ancient Mariner*; Arnold: *Sohrab and Rustum*.

A collection of representative verse, narrative and lyric.

Tennyson: *Idylls of the King* (any four).

*The Aeneid* or *The Odyssey* in a translation of recognized excellence, with the omission, if desired, of Books I-V, XV, and XVI of *The Odyssey*.

GROUP IV.—The Old Testament (the chief narrative episodes in *Genesis*, *Exodus*, *Joshua*, *Judges*, *Samuel*, *Kings*, and *Daniel*, together with the Books of *Ruth* and *Esther*).

Irving: *The Sketch Book* (about 175 pages); Addison and Steele: *The Sir Roger de Coverley Papers*; Macaulay: *Lord Clive*; Parkman: *The Oregon Trail*; Franklin: *Autobiography*.

GROUP V.—A modern novel.

A collection of short stories (about 150 pages).

A collection of contemporary verse (about 150 pages).

A collection of prose writings on matters of current interest (about 150 pages).

Two modern plays.

All selections from this group should be works of recognized excellence.

#### THE B LIST.

One selection is to be made from each group.

GROUP I.—Shakespeare: *Macbeth*, *Hamlet*.

GROUP II.—Milton: *L'Allegro*, *Il Penseroso*, and either *Comus* or *Lycidas*; Browning: *Cavalier Tunes*, *The Lost Leader*, *How They Brought the Good News from Ghent to Aix*, *Home Thoughts from Abroad*, *Home Thoughts from the Sea*, *Incident of the French Camp*, *Hervé Riel*, *Pheidippides*, *My Last Duchess*, *Up at a Villa—Down in the City*, *The Italian in England*, *The Patriot*, *The Pied Piper*, *De Gustibus*, *Instans Tyrannus*, *One Word More*.

GROUP III.—Macaulay: *Life of Johnson*; Carlyle: *Essay on Burns*, with a brief selection from *Burns's Poems*; Arnold: *Wordsworth*, with a brief selection from *Wordsworth's Poems*.

GROUP IV.—Burke: *Speech on Conciliation with America*.

A collection of orations, to include at least Washington's *Farewell Address*, Webster's *First Bunker Hill Oration*, and Lincoln's *Gettysburg Address*.

#### EXAMINATIONS UNDER THE RESTRICTIVE PLAN.

The examinations will be in two parts, each of which will occupy an hour and a half. The first part will test powers of correct, clear, truthful expression. The candidate will write one or more compositions several paragraphs in length. For this purpose a list of eight or ten subjects will be provided. These may be suggested in part by the books in the A List, but a sufficient number from other sources will make it possible for the candidate to draw upon his own experience

and ideas. He will not be expected to compose at a more rapid rate than three hundred fifty words an hour, but his work must be free from common errors in grammar, idiom, spelling, and punctuation, and should show that he understands the principles of unity and coherence. In addition, questions may be asked on the practical essentials of grammar, such as the construction of words and the relation of various parts of a sentence to one another.

The second part will test the faithfulness with which the candidate has studied the works in the B List, and his ability to grasp quickly the meaning of a passage of prose or verse that he has not previously seen and to answer simple questions on its literary qualities. The examination may call also for the writing of a short composition.

In connection with the second part of the Restrictive Examination the candidate will be required to submit a statement certified by his principal specifying what books he has read during his secondary school course, and indicating the quality and character of his spoken English.

## II. REQUIREMENTS AND EXAMINATIONS UNDER THE COMPREHENSIVE PLAN.

The requirements under the Comprehensive Plan are identical with the requirements under the Restrictive Plan except that no books are prescribed for reading and study, the selecting of suitable works being left to the preparatory school. The Comprehensive Examination will test powers of correct, clear, truthful expression. The candidate will write one or more compositions several paragraphs in length. For this purpose a list of eight or ten subjects will be provided. It will in addition enable the candidate to show that he has read, understood, and appreciated a sufficient amount of English literature. Questions will be asked that cannot be answered except by those who are able to apply what they have learned to passages of literature which they have not read before. The time of the Comprehensive Examination will be three hours.

Examination under the Comprehensive Plan is not given by this college, but additional information concerning it may be obtained from the Dean of the College, or from the Secretary of the College Entrance Examination Board, 431 W. 117th St., New York City.

## LATIN.

## I. AMOUNT AND RANGE OF READING REQUIRED.

1. The Latin reading required of candidates for admission to the B. A. course, without regard to the prescription of particular authors and works, is not less *in amount* than Caesar, Gallic War, I-IV; Cicero, the orations against Catiline, for the Manilian Law, and for Archias; Vergil, Aeneid, I-VI.

2. The amount of reading specified above should be selected by the schools from the following authors and works: Caesar (Gallic War and Civil War) and Nepos (Lives); Cicero (orations, letters, and De Senectute) and Sallust (Catiline and Jugurthine War); Vergil (Bucolics, Georgics, and Aeneid) and Ovid (Metamorphoses, Fasti, and Tristia).

## II. SUBJECTS AND SCOPE OF THE EXAMINATIONS.

1. Translation at Sight. Candidates will be examined in translation at sight of both prose and verse. In vocabulary, constructions, and range of ideas, the passages set will be suited to the preparation secured by the reading indicated above.

2. Prescribed Reading. Candidates will be examined also upon the following prescribed reading: Cicero, the fourth oration against Catiline, and the oration for the Manilian Law; Vergil, Aeneid, I and IV; Ovid, Metamorphoses, Book III, 1-137 (Cadmus); IV, 55-166 (Pyramus and Thisbe), and 663-764 (Perseus and Andromeda); VI, 165-312 (Niobe); VIII, 183-235 (Daedalus and Icarus); X, 1-77 (Orpheus and Eurydice); XI, 85-145 (Midas). Accompanying the different passages will be questions on subject-matter, literary and historical allusions, and prosody.

Every paper in which passages from the prescribed reading are set for translation will contain also one or more passages for translation at sight; and candidates must deal satisfactorily with both these parts of the paper, or they will not be given credit for either part.

The papers set by the College Entrance Examination Board, corresponding to the above requirements, are Latin 4 and 5.

3. Grammar and Composition. The examinations in grammar and composition will demand thorough knowledge of all regular inflections, all common irregular forms, and the ordinary syntax and vocabulary of the prose authors read in school,

with ability to use this knowledge in writing simple Latin prose. The words, constructions, and range of ideas called for in the examinations in composition will be such as are common in the reading of the year, or years, covered by the particular examination.

The papers set by the College Entrance Examination Board, corresponding to the above requirements, are Latin 1 and 2.

In the case of candidates who desire credit for *two years'* work in Latin, the required reading is not less *in amount* than Caesar, Gallic War, I.-IV., and should be selected from the following: Caesar (Gallic War and Civil War) and Nepos (Lives). The test is on ability to read at sight, and no part of the reading is prescribed for examination. The corresponding paper of the College Entrance Examination Board is Latin 3. For *three years'* credit, the required reading is not less *in amount* than Caesar, Gallic War, I.-IV., and Cicero, the orations against Catiline, for the Manilian Law, and for Archias; this reading should be selected from Caesar (Gallic War and Civil War) and Nepos (Lives), Cicero (orations, letters, and De Senectute) and Sallust (Catiline and Jugurthine War). Cicero's third oration against Catiline, and the orations for the Manilian Law and for Archias are prescribed for examination, in addition to the translation at sight. The corresponding paper of the College Entrance Examination Board is Latin 4. For this may be substituted, if desired, the examination in fourth-year Latin, Vergil (Aeneid, Books II, III, and VI), and Translation of Poetry at Sight (Latin 5).

Certificates for two years of Latin must state that the candidate has had systematic practice, and has exhibited satisfactory proficiency, in reading at sight Latin of the average difficulty of Caesar; certificates for three years must vouch for similar practice and proficiency in reading at sight Latin of the average difficulty of either Cicero's orations or Vergil's Aeneid; and certificates for four years must vouch for such practice and proficiency in reading at sight Latin of the average difficulty of both Cicero's orations and Vergil's Aeneid.

#### GREEK.

1. Greek grammar, including prosody. The following textbooks are recommended: Hadley-Allen's, Goodwin's, or Babbitt's.

2. Xenophon,—Anabasis, books I.—IV.
3. Homer,—Iliad, books I.—III.
4. Translation at sight of one or more passages from Xenophon.
5. Translation into Greek of easy narrative passages based on the required books of the Anabasis.

To meet the full requirement in Greek, candidates must pass the following examinations of the College Entrance Examination Board: Greek *a i*, *a ii*, *b*, *c*, *g*.

### GERMAN

**ELEMENTARY** (counting as two units).—Such a knowledge of the language is required as may be obtained by the reading of at least 250 pages, part of which should be read at sight. It is recommended that there be sufficient aural and oral practice to enable the student to write simple German prose from dictation and to read the language aloud with a correct and intelligible pronunciation. The ability to answer simple questions in German is also highly important. The examination consists of the translation at sight into English of easy passages of German, elementary grammatical questions, and the translation of simple English sentences into German. To meet this requirement two years' work will generally be necessary.

**INTERMEDIATE** (counting as one unit).—The requirement includes the reading of at least 400 additional pages of German (a part of which should be non-fiction), and regular practice in writing German. Further practice in speaking German is recommended, sufficient to enable the student to understand simple spoken German, and to express simple ideas in the language. At least one additional year of study will be necessary to meet this requirement.

### FRENCH.

**ELEMENTARY** (counting as two units).—Such a knowledge of the language is required as may be obtained by the reading of at least 400 pages, part of which should be read at sight. The ability to write simple French prose from dictation, to read aloud with a correct pronunciation, and to answer simple questions in French, is important. The examination consists

of the translation at sight into English of easy passages of French, elementary grammatical questions, and the translation of simple English sentences into French. To meet this requirement two years' work will generally be necessary.

INTERMEDIATE (counting as one unit).—The requirement includes the reading of not less than 600 additional pages of French (including at least two works of a dramatic character), and regular practice in writing and speaking French. At least one additional year of study will be necessary to meet this requirement.

#### SPANISH.

ELEMENTARY (counting as two units).—Such a knowledge of the language is required as may be obtained by the reading of at least 300 pages, part of which should be read at sight. The ability to write simple Spanish prose from dictation, to read aloud with correct pronunciation, and to answer simple questions in Spanish, is important. The examination consists of the translation at sight into English of easy passages from Spanish, elementary grammatical questions, and the translation of simple English sentences into Spanish. To meet this requirement two years' work will generally be necessary.

INTERMEDIATE (counting as one unit).—The requirement includes the reading of not less than 300 additional pages of Spanish and the ability to translate into Spanish a connected passage of English based on the text read, as well as to answer questions involving a more thorough knowledge of syntax than is expected in the elementary course. At least one additional year of study will be necessary to meet this requirement.

#### HISTORY.

1. Ancient History to the death of Charlemagne (814).
2. Mediaeval and Modern European History from the death of Charlemagne (814) to the present time.
3. Modern History from about 1660 to the present time.
4. English History.
5. American History.
6. American History and Civil Government.

Courses 1, 2, 4, and 6 are outlined in *The Study of History in Schools: Report to the American Historical Association by the*



*Committee of Seven* (1899), and with more detail in *A History Syllabus for Secondary Schools . . . by a Special Committee of the New England History Teachers' Association* (1904), and in *Syllabus for Secondary Schools, 1910*, published by the University of the State of New York. These six courses are identical with those scheduled for examination by the College Entrance Examination Board.

In each of the above courses the following requirements must be met:

1. One year of historical work, wherein the study is given five times per week, or two years of historical work, wherein the study is given three times per week.
2. Such general knowledge of the whole course as may be acquired from the study of an accurate text-book, amounting to not less than 500 pages.
3. A fuller knowledge derived from suitable collateral reading, in books of a less elementary nature, amounting to at least 500 pages.
4. Comparisons between historical characters, periods, and events, and in general the power to combine in orderly fashion the results of reading, and to exercise judgment as well as memory.
5. Geographical knowledge, tested by the location of places, movements, and territorial changes on an outline map, by physical features wherever possible, as well as by political features.

Schools having the certificate privilege must certify only those courses in history actually pursued in the high school, and must omit any courses taken in the grammar school, or merely passed on examination, or not complying with the above requirements.\*

\* In case of schools entitled to the certificate privilege, where any of the courses in history are such that they do not meet the above requirements, the teacher should give the student a detailed statement of the courses taken and of his grades, which statement will be considered in connection with such examination as may be deemed necessary to determine the amount of credit to be allowed. In no case will account be taken of a course in Greek History which does not extend at least to the death of Alexander (B. C. 323), or of a course in Roman History which does not extend at least to the death of Marcus Aurelius (A. D. 180). No account will be taken of any course of less than five periods for a half-year, or three periods for a year.

The Regents' diplomas and supplementary pass cards of the University of the State of New York for the *five*-hour examinations will be received as covering the first, fourth, and sixth of the above groups, and for the three hour examinations in *both* Modern History I. and Modern History II. as covering the second of the above groups.† Similar credentials covering Courses B (Modern History) and C (American History) outlined in the Regents' *Syllabus* of 1920 will be received as equivalent to the third and sixth of the above groups.

Candidates for the B.A. degree are advised to present Ancient History, the first of the above groups, and may, in addition, present not to exceed three of the other groups. Candidates for the B. S. or Ph. B. degree may present not to exceed four of the above groups.

## MATHEMATICS.

### I. ELEMENTARY ALGEBRA.

(a) Algebra to Quadratics. The four fundamental operations for rational algebraic expressions. Factoring, determination of highest common factor and lowest common multiple by factoring. Fractions, including complex fractions, and ratio and proportion. Linear equations, both numerical and literal, containing one or more unknown quantities. Problems depending on linear equations. Radicals, including the extraction of the square root of polynomials and of numbers. Exponents, including the fractional and negative.

(b) Quadratics and beyond. Quadratic equations, both numerical and literal. Simple cases of equations with one or more unknown quantities, that can be solved by the methods of linear or quadratic equations. Problems depending on quadratic equations. The binomial theorem for positive integral exponents. The formulas for the  $n$ th term and the sum of the terms of arithmetical and geometric progressions, with applications.

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† No credit will be allowed for the *three*-hour examination in Ancient History. Temporarily, the three-hour examinations in the other subjects will be credited for a half-unit. No credit is given for Elementary United States History and Civics, or Civics, or Economics, or for Course A (Ancient and Mediaeval History) as outlined in the 1920 *Syllabus*.

## 2. PLANE GEOMETRY.

The usual theorems and constructions of good text-books, including the general properties of plane rectilinear figures; the circle and the measurement of angles; similar polygons; areas; regular polygons, and the measurement of the circle. The solution of numerous original exercises, including loci problems. Applications to the mensuration of lines and plane surfaces.

## 3. SOLID GEOMETRY.

The usual theorems and constructions of good text-books, including the relations of planes and lines in space; the properties and measurement of prisms, pyramids, cylinders, and cones; the sphere and the spherical triangle. The solution of numerous original exercises, including loci problems. Applications to the mensuration of surfaces and solids.

## 4. ADVANCED ALGEBRA.

Permutations and combinations, limited to simple cases. Complex numbers, with graphical representation of sums and differences. Determinants, chiefly of the second, third, and fourth orders, including the use of minors and the solution of linear equations. Numerical equations of higher degree, and so much of the theory of equations, with graphical methods, as is necessary for their treatment, including Descartes' rule of signs and Horner's method, but not Sturm's functions or multiple roots.

## 5. PLANE TRIGONOMETRY.

Definitions and relations of the six trigonometric functions as ratios; circular measurement of angles. Proofs of principal formulas, in particular for the sine, cosine, and tangent of the sum and the difference of two angles, of the double angle and the half angle, the product expressions for the sum or the difference of two sines or of two cosines, etc.; the transformation of trigonometric expressions by means of these formulas. Solution of trigonometric equations of a simple character. Theory and use of logarithms (without the introduction of work involving infinite series). The solution of right and oblique triangles, and practical applications.

## PHYSICS.

The course of instruction should include:

(1) The careful study of a standard text-book, for the purpose of obtaining a connected and comprehensive view of the subject.

(2) Lecture table demonstrations, mainly qualitative, illustrating important facts and phenomena and their practical applications.

(3) Individual laboratory work, consisting of experiments requiring at least the time of thirty double periods. The experiments performed by each student should number at least 30. They should be chiefly quantitative, and so chosen as to give a wide range of observation and practice. They should be neatly recorded in a suitable note-book, indexed, and certified by the instructor. This book should be deposited with the examiner when the candidate presents himself for examination. Students entering on certificate are not required to show their note-books.

The above requirements are intended to be identical with those of the College Entrance Examination Board, as set forth in their Document No. 105. Teachers of physics are advised to consult this document for a valuable syllabus of topics and list of experiments.\*

## CHEMISTRY.

The requirements for admission in chemistry may be summarized as follows:

(1) Individual laboratory work, comprising at least forty experiments. The candidate who is examined in chemistry for admission to college must present his original note-book containing a record in his own words of the experiments, and of his observations and conclusions in connection with them. The note-book should include an index of the experiments performed, and must be certified by the instructor. It should be deposited with the examiner when the candidate presents himself for examination. Students entering on certificate are not required to show their note-books.

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\* See note at the bottom of next page.

(2) Instruction by lecture table demonstrations, covering the more important facts and principles of elementary chemistry.

(3) The thorough study of at least one standard text-book, for the acquisition of a comprehensive and connected view of the subject.

These requirements are intended to be identical with those of the College Entrance Examination Board. Teachers who desire to meet them should consult Document No. 105 of the Board.\*

### PHYSICAL GEOGRAPHY.

In physical geography, such a knowledge of the subject is required as may be gained from the study of the text-book of any one of the following authors: Salisbury, Tarr, Davis, Gilbert and Brigham, Hinman, Dryer, Hopkins, Geikie. Certificates in physical geography will not be accepted without examination, with credit of one half-unit, unless one of the text-books above mentioned has been used, and the time devoted to the study has been at least the equivalent of four exercises a week for a half-year. Certificates will not be accepted without examination, with credit of one unit, unless one of the text-books above mentioned has been used, supplemented by laboratory work, and the time devoted to the study has been at least the equivalent of four exercises a week for a year. The laboratory note-book, properly certified by the instructor, must be deposited with the examiner when the candidate presents himself for examination. Students entering on certificate are not required to show their note-books.

### BIOLOGY.

Credit will be given in biology for either one-half unit or for one unit, according to the amount of time the student has given to the study. To obtain a credit of one unit, the student must have given to the study the equivalent of four or five hours a week for a year. The candidate must present his original note-book containing a record of his drawings and observations on the work of the laboratory. The note-book must

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\* Address College Entrance Examination Board, 431 W. 117th St., New York, N. Y. The price of the document is ten cents.

be certified by the instructor. Credit will be allowed for work in either botany or zoölogy, any of the modern text-books in these subjects being recognized as satisfactory. If the student desires credit for a unit in botany he is expected to have a knowledge of both structural and morphological botany, and to have a practical familiarity with the method of analyzing flowers and using analytical keys. In zoölogy a more thorough comprehension of the structure and classification of animals is expected if a unit credit is given than if only a half unit. In case a student has had an extended course in physiology, this may be accepted in place of botany.

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### SPECIAL COURSES.

Special students, not candidates for a degree, may be admitted, upon passing such examinations as the Faculty shall in each case prescribe. (See also page 36.)

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### GENERAL REGULATIONS CONCERNING ADMISSION.

**ADVANCED STANDING.**—All candidates for advanced standing must satisfy the Faculty of their proficiency in the preparatory studies, the required studies already pursued by the classes they propose to enter, and the proper quota of elective studies, or studies recognized as equivalents therefor. A certificate of standing in another college is not accepted as evidence of such proficiency, without such further inquiry or examination as may be necessary in the judgment of the respective instructors. No student is admitted from another college unless his standing in scholarship is at least as high as that required in Wesleyan University for promotion from class to class.

**PRELIMINARY EXAMINATIONS.**—Preliminary examinations in any of the requirements for admission may be taken a year or more before entering college, and a candidate will receive credit for any subjects thus passed in advance.

**DATE AND PLACE OF EXAMINATIONS.**—Examinations for admission are held twice each year, in June and in September. The June examinations are those of the College Entrance Examination Board, and are conducted under the following regulations.

In June, 1923, there will be separate blank forms for the "application for examination" and "certificate of recommendation." The former should be addressed to the College Entrance Examination Board, 431 West 117 Street, New York, N. Y., the latter to the Chairman of the Committee on Admission of the university, college, or scientific school that the candidate wishes to enter. Both forms may be obtained from the Secretary of the College Entrance Examination Board upon request by mail.

Provided that the application reach the College Entrance Examination Board not later than the date specified below, the examination fee will be \$9.00 if the candidate is to be examined in the United States or Canada, \$20.00 if the candidate is to be examined outside of the United States or Canada. The fee should be transmitted by postal order, express order, or draft on New York, should accompany the application, and should be payable to the College Entrance Examination Board.

Applications and fees of candidates who wish to be examined outside of the United States or Canada must reach the Secretary of the Board at least six weeks in advance of the examinations, that is, on or before May 7, 1923.

Applications and fees of candidates who wish to be examined at points in the United States west of the Mississippi River or in Canada must be received at least four weeks in advance of the examinations, that is, on or before May 21, 1923.

Applications and fees of candidates who wish to be examined at points in the United States east of or on the Mississippi River must be received at least three weeks in advance of the examinations, that is, on or before May 28, 1923.

When the candidate has failed to obtain the required blank form of application for examination, the usual examination fee will be accepted if the fee arrive not later than the specified date accompanied by a memorandum containing the name

and address of the candidate, the examination center at which he wishes to present himself, and a list of all subjects in which he may have occasion to take the Board's examinations.

Applications received later than the dates named will be accepted only upon payment of an additional fee of nine dollars.

A list of the places at which the examinations are to be held by the Board in June, 1923, will be published about March 1. Requests that the examinations be held at particular points, to receive proper consideration, should be transmitted to the Secretary of the Board not later than February 1.

The examinations in June, conducted by the Examination Board, will be held June 18-23, 1923. The examinations in September will be conducted by the college, and no fees will be charged. They will be held only in Middletown. The dates of the examinations in 1923 will be September 14, 15, and 17.

**ADMISSION BY CERTIFICATE.**—Certificates covering the foregoing requirements for admission to college are received from certain schools of good standing, which have been approved by the Faculty. A certificate will not be received unless it covers decidedly the major part of the requirements for admission.

No certificate will be received from any school in New England which has not been approved by the New England College Entrance Certificate Board, of which this college is a member. The Secretary of the Board is Dean Frank W. Nicolson, of Wesleyan University, Middletown, Conn., to whom applications from New England schools for the certificate privilege should be addressed. Such applications must reach the Secretary not later than April first, if approval is desired for the next academic year.

The academic diploma in classical or technical subjects, issued by the Regents of the University of the State of New York, and their college entrance diploma in arts, science, or engineering, together with pass cards or advanced diplomas supplementary to the above will be received in lieu of examination in such of the subjects required for admission as they cover. Regents' certificates, and pass cards without diplomas, will not be accepted.



Certificates from preparatory schools and Regents' diplomas are never accepted in lieu of examination for advanced standing.

Students entering by certificate are considered as on trial until the completion of the mid-year examinations. A student admitted to college on certificate, who is dismissed during his Freshman year on account of inability to keep up with his class, must take examinations in all subjects required for admission, in case he desires to return to college.

Detailed information concerning admission by certificate may be obtained on application to the Dean.

**ADMISSION OF WOMEN.**—Women were first admitted to the University in 1872. The Trustees voted, February 26, 1909, that no women should be admitted in any class later than that entering in 1909. Women may be admitted, however, as graduate students.

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Satisfactory evidence of good moral character will be required in the case of all candidates for admission; and certificates of honorable dismissal will be required from those who have been members of other colleges.

## COURSES OF INSTRUCTION.

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For regulations concerning selection of studies, see page 114.

Bracketed courses are not given this year, but will, in most cases, be given next year.

The Roman numerals in parentheses following each course indicate the examination group to which it is assigned. For table of groups, see pages 112, 113.

The place of meeting of each course is indicated by means of the following abbreviations: F. H.=Fisk Hall; J. H.=Judd Hall; O. H.=Observatory Hall; S. C.=South College; S. L.=Scott Laboratory of Physics; CHEM. LAB., BIOL. LAB.=Chemical, Biological Laboratory.

An asterisk prefixed to the number of a course indicates that it can be elected only with the previous approval of the instructor; such approval must be *in writing* and must be handed in by the student *along with his list of electives*.

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### ASTRONOMY.

PROFESSOR SLOCUM.

1. DESCRIPTIVE ASTRONOMY. A general introduction to the subject, dealing with the fundamental conceptions of the celestial sphere, astronomical instruments, the earth, moon, sun, planets, and their satellites, comets, meteors, stars, nebulae, and a brief outline of modern cosmogonies. Recitations, lectures, constellation study, and frequent use of the telescope. SECTION 1, *Mon., Wed., Fri., at 11*; SECTION 2, *Mon., Wed., Fri., at 1*. VAN VLECK OBSERVATORY. (V)

Course 1 is elective for those who have taken or are taking a course in trigonometry.

2. PRACTICAL ASTRONOMY. Use of sextant, transit, zenith telescope, chronometer, and chronograph for solving such problems as time, latitude, longitude, and azimuth as used in astronomy, geodesy, and navigation. Use of equatorial telescope for simple observations. Methods of computation. *Wed., Fri., at 9, and two hours of observations, four hours counting as three*. VAN VLECK OBSERVATORY. (II)

Course 2 is elective for those who have taken a course in trigonometry.

3. HISTORY OF ASTRONOMY. A rapid survey of the development of the science from its origin down to the present time. Lectures, collateral reading, reports. *Mon., Wed., Fri., at 10 (second half-year).* VAN VLECK OBSERVATORY.  
(III)

Course 3 is elective for Sophomores. It may not be elected by those who have taken, or who are taking, Course 1.

4. SPHERICAL ASTRONOMY AND OBSERVATORY PRACTICE. Reduction and determination of positions of fixed stars. Proper motion and parallax. Star catalogues. Theory and adjustment of the equatorial. Use of the micrometer and comparator for measuring double stars, positions of planetoids, comets, etc. *Tu., Th., at 9, and two hours of observations, four hours counting as three.* VAN VLECK OBSERVATORY.  
(VIII)

Course 4 is elective for those who have taken Course 2 in astronomy and Course 7 in mathematics.

[5. ASTROPHYSICS. Theory and use of the spectroscope, photometer, and astronomical camera. Spectroscopic study of the sun and stars. Binary systems. Variable stars. Measurement of spectra and direct photographs. *Three times a week.*]

Course 5 is elective for those who have taken Courses 2 and 1 or 3 in astronomy, and Course 7 in mathematics. Courses 4 and 5 are given in alternate years. Course 5 is omitted in 1922-23.

INTRODUCTION TO CELESTIAL MECHANICS. Laws of motion. Study of parabolic and elliptic orbits. (See Mathematics 15.)

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## BIOLOGY.

PROFESSOR SCHNEIDER; ASSOCIATE PROFESSORS GOODRICH AND WOODS.

1. GENERAL BIOLOGY. An introduction to the biological sciences. This course, touching briefly upon the more important problems of modern biology, includes a study of a few representative plant and animal types, with special emphasis on

the structure and physiology of the frog. SECTION 1, *Tu., Th., at 10*; SECTION 2, *Tu., Th., at 11, with a supplementary hour (Sat., at 10 or 11) at the discretion of the instructor, and one three-hour laboratory period, the course counting as three hours. Laboratory, Mon., Tu., Wed., Th., 1-4 or 2-5.* 8 J. H. ASSOCIATE PROFESSOR WOODS. (XVII)

Course 1 is elective for Freshmen. It is a prerequisite for advanced courses in the department, and is necessary for students preparing to enter medical colleges.

[2. BOTANY. A general course, dealing principally with the comparative structure of the lower plants (Thallophytes, Bryophytes, and Pteridophytes). *Two lecture hours, and one three-hour laboratory period (first half-year), counting as three hours.* ASSOCIATE PROFESSOR WOODS.]

Course 2 is elective for those who have taken Course 1. It is given in alternate years with Course 4, and is omitted in 1922-23.

[3. SYSTEMATIC BOTANY. A continuation of course 2, dealing with the structure, classification, and physiology of the seed-plants (Spermatophytes). A large part of the laboratory work is devoted to flower analysis and the preparation of an herbarium. *Two lecture hours, and one three-hour laboratory period (second half year), counting as three hours.* ASSOCIATE PROFESSOR WOODS.]

Course 3 is elective for those who have taken Course 2, and, with the permission of the instructor, for those who have taken Course 1 only. It is given in alternate years with Course 4, and is omitted in 1922-23.

4. ENTOMOLOGY. A general course, dealing with the structures, habits, life histories, and classification of insects. Representative types are studied in each group, with special emphasis on forms injurious in agriculture or concerned in the transmission of disease. *Tu., Th., at 8, and one three-hour laboratory period, counting as three hours.* 8 J. H. ASSOCIATE PROFESSOR WOODS. (VII)

Course 4 is elective for those who have taken Course 1. The work of either semester may be elected separately with the permission of the instructor.

5. **SANITARY SCIENCE.** This course deals with public health problems and activities, and disease control. Some of the topics included are: Death and its causes, ancient and modern theories of disease, classifications of diseases, direct and predisposing causes of disease, means of avoiding and resisting disease, vehicles of disease such as dust, sewage, water, milk, etc., brief sketch of the transmissible and epidemic diseases, prophylaxis, special community problems. *Tu., Th., at 8.* 34 S. L. PROFESSOR SCHNEIDER. (VII)

Course 5 is elective for Sophomores.

6. **INVERTEBRATE ZOÖLOGY.** The course treats primarily of the anatomy, physiology, and natural history of representative types of the lower or invertebrate animals. *Mon., Wed., at 9, and five laboratory hours a week (first half-year), counting as four hours.* 8 J. H. ASSOCIATE PROFESSOR GOODRICH. (II)

Course 6 is elective for those who have taken Course 1.

7. **VERTEBRATE ZOÖLOGY.** The course treats primarily of the comparative anatomy of the vertebrates. Especial emphasis is placed in laboratory work on the dissection of the dog-fish and the cat. *Mon., Wed., at 9, and five laboratory hours a week (second half-year), counting as four hours.* 8 J. H. ASSOCIATE PROFESSOR GOODRICH. (II)

Course 7 is elective for those who have taken Course 1. This course, with Course 1, will meet the requirements of most medical colleges.

8. **PHYSIOLOGY AND PERSONAL HYGIENE.** Lectures, recitations, and demonstrations dealing with the structures, activities, and care of the human body. *Mon., at 2; Tu., Th., at 9.* 8 J. H. PROFESSOR SCHNEIDER. (VIII)

Course 8 is elective for those who have taken Course 1. A course in chemistry is also desirable.

9. **EXPERIMENTAL PHYSIOLOGY.** A laboratory course, covering the following subjects: The general physiology of muscle and nerve tissues; phenomena of circulation; composition and function of blood; respiratory exchanges, movements, and control; digestion and absorption. *One three-hour laboratory*

*period a week, counting as one hour.* 26 S. L. PROFESSOR SCHNEIDER.

Course 9 is elective for those who have taken Course 1, a course in chemistry, and who have taken, or who are taking, Course 8. The course may most profitably be taken as a parallel course to Course 8.

\*10. ADVANCED PHYSIOLOGY. Investigation of special problems, and advanced readings. *Five, or seven and one-half, hours a week, counting as two or three hours respectively.* 25 S. L. PROFESSOR SCHNEIDER.

Course 10 is elective, with the permission of the instructor, for those who have taken Courses 8 and 9.

11. ORGANIC EVOLUTION AND GENETICS. The work of the first semester outlines evidence upon which the modern concept of evolution is based, including a brief review of the animal kingdom, with especial reference to forms living during past geologic eras. The evolution of the dinosaurs, mammals, and prehistoric man is studied in detail. The problems of the origin of life and the relation of inorganic to organic evolution are outlined. The second semester deals with the theories of the cause and progress of evolution, and with related problems, including the following topics: historical introduction, Lamarck's and Darwin's theories of evolution, social evolution, the germplasm, the problem of inheritance of acquired characteristics, pure lines, mutation, Mendelian inheritance, the physical basis of inheritance, heredity and environment, human inheritance, and eugenics. The work includes assigned readings from Darwin and other writers. *Mon., Wed., Fri., at 1.* 8 J. H. ASSOCIATE PROFESSOR GOODRICH. (V)

Course 11 is elective for Juniors, and for others with the permission of the instructor. The first semester of the course may be combined with Geology 5 as a complete course, with the permission of the instructors.

\*12. BACTERIOLOGY. A general course in bacteriology. The laboratory covers the following subjects: Apparatus, culture media and methods of preparation, methods of sterilization, microscopic characteristics of cultures of bacteria,

methods of diagnosis and of obtaining pure cultures, bacteriological investigations of air, soil, water, and milk. *Tu., Th., at 1, and five hours in the laboratory, counting as four hours.* 8 J. H. and 24 S. L. PROFESSOR SCHNEIDER. (XI)

Course 12 is elective, with the permission of the instructor, for those who have taken Course 1 and a course in chemistry. Course 5 is also recommended.

13. HISTOLOGY AND MICROSCOPIC ANATOMY. A laboratory course based on a study of mammalian and human tissues. The technique of preparation of microscopic slides is taught. Each student prepares for himself a representative permanent collection of microscopic slides of tissues. *Seven and one-half laboratory hours (first half-year).* 6 J. H. ASSOCIATE PROFESSOR GOODRICH.

Course 13 is elective for those who have taken Course 7, and for others with the permission of the instructor.

14. EMBRYOLOGY. A laboratory course which includes a study of the formation of the germ cells, the development of the frog and the chick, and comparisons in human embryology. General problems of development are emphasized. *Two lectures at specially arranged hours, and five laboratory hours (second half-year).* 5 J. H. ASSOCIATE PROFESSOR GOODRICH.

Course 14 is elective for those who have taken Course 13, and for others with the permission of the instructor.

\*15. ADVANCED EMBRYOLOGY. Special problems in embryology and related topics. Laboratory work and assigned readings. *The number of hours to be arranged with the instructor.* 5 J. H. ASSOCIATE PROFESSOR GOODRICH.

Course 15 is elective, with the permission of the instructor, for those who have taken Course 14.

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#### SCHOLARSHIP IN BIOLOGY.

A scholarship was founded in 1919 by action of the Board of Trustees of Wesleyan University to support work at the Marine Biological Laboratory at Woods Hole, Massachusetts. The expense in any one year is not to exceed \$125. This may be

used to pay complete expenses for one student or in part for two students. Summer courses in invertebrate zoölogy, botany, embryology, physiology, and protozoölogy, and opportunities for research work are offered at the laboratory. The scholarship is open to all taking work in biology and application should be made to some member of the department.

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## CHEMISTRY.

PROFESSOR HOOVER; ASSOCIATE PROFESSOR HILL; MR. CAVELTI.

1. GENERAL CHEMISTRY. A comprehensive descriptive course emphasizing generalizations, practical processes, and economic aspects of chemistry. Two demonstration lectures or class discussions, one supplementary lecture or discussion at the discretion of the instructor, with one three-hour laboratory period, counting as *three* hours. Lectures, *Tu., Th., at 9.* Laboratory, *Wed., 1-4, Th., 1-4, or Fri., 1-4.* Supplementary lecture, *Sat., at 9.* 3 J. H. PROFESSOR HOOVER. (VIII)

Course 1 is elective for all students, but is primarily intended to suit the needs of those not intending to elect other courses in chemistry. Since Course 1 differs from the usual course in elementary chemistry, students who have completed a course in a secondary school can pursue this course with profit. Special laboratory and recitation work will be given students receiving entrance credit for chemistry.

2. ADVANCED INORGANIC CHEMISTRY. A course designed to present the principles of chemistry illustrated by systematic inorganic chemistry. The laboratory work consists largely of inorganic preparations and experiments illustrating the general principles of chemistry. Two lectures or class discussions, one supplementary lecture or discussion at the discretion of the instructor, with one three-hour laboratory period. Lectures, *Mon., Wed., at 9.* Laboratory, *Mon., 1-4, or Tu., 1-4.* Supplementary lecture, *Fri., at 9.* 3 J. H. PROFESSOR HOOVER. (II)

Course 2 is intended primarily for students planning to elect more advanced courses in chemistry. It is elective for stu-



dents who have received credit for chemistry on admission, and counts as three hours.

With the permission of the instructor, Course 2 is elective for students who have not received credit for chemistry on admission; completion of the course will entitle such students to *four* hours credit. With the permission of the instructor, a student who has taken or is taking Course 1 may elect Course 2 without laboratory work, counting as *two* hours; or with laboratory work, counting as *three* hours.

Students whose progress in Course 2 is not satisfactory may be asked to change to Course 1. Course 2, or Course 1 and Course 2 without laboratory, constitute alternative prerequisites for other courses in chemistry.

3. QUALITATIVE ANALYSIS. A laboratory course in basic and acid analysis, with lectures and class discussions on the application of the principles of theoretical chemistry to qualitative analysis. Three exercises per week; lectures or laboratory periods at the discretion of the instructor, counting as three hours. Lectures, *Tu., Th., Sat., at 10*. Laboratory, *Tu., Th., 1-4*. CHEM. LAB. MR. CAVELTI. (IX)

Course 3 is elective for those who have taken Course 2, or Course 1 and Course 2 without laboratory.

4. ELEMENTARY ORGANIC CHEMISTRY. A general descriptive course in the chemistry of the compounds of carbon, emphasizing the practical applications. Combined with Course 1 or Course 2 it affords the student not specializing in chemistry an appreciation of the main facts of this science. It also forms a foundation for further work in organic chemistry and for the study of medicine. Two lectures or class discussions and one four-hour laboratory period, counting as three hours. Lectures, *Mon., Wed., at 1*. Laboratory, *Mon., 2-6, or Wed., 2-6*. 3 J. H. ASSOCIATE PROFESSOR HILL. (V)

Course 4 is elective for those who have taken Course 1 or Course 2.

5. ELEMENTARY QUANTITATIVE ANALYSIS. A laboratory course in gravimetric and volumetric analysis, with lectures and class discussions. The course consists of one lecture and two three-hour laboratory periods, counting as three hours.

Lecture, *Fri.*, at 1. Laboratory, *Wed.*, 1-4, *Fri.*, 2-5. CHEM. LAB. MR. CAVELTI. (V)

Course 5 is elective for those who have taken Course 3.

6. INDUSTRIAL CHEMISTRY. Lectures, collateral reading, and occasional excursions. The purpose of this course is to give a general idea of the chemical processes involved in modern industry, and of the principles underlying chemical manufacture. In a few processes the details of manufacture are studied. The first semester deals with inorganic processes, the second with organic. *Mon.*, *Wed.*, *Fri.*, at 8. I J. H. PROFESSOR HOOVER and ASSOCIATE PROFESSOR HILL. (I)

Course 6 is elective for those who take, or who have taken, Courses 3 and 4.

7. PHYSICAL CHEMISTRY. A course in elementary theoretical and physical chemistry. There are two lectures and one laboratory period or discussion each week, counting as three hours. *Tu.*, *Th.*, *Sat.*, at 11. I J. H. PROFESSOR HOOVER. (X)

Course 7 is elective for those who have taken, or who are taking, Courses 3 and 5. It is advisable, though not necessary, to have taken, or to be taking, Course 7 in mathematics.

8. ADVANCED ORGANIC CHEMISTRY. A course consisting of lectures, recitations, and laboratory exercises. The lecture work deals with the advances in the fields of theoretical and synthetic organic chemistry. The laboratory work consists of important syntheses, not studied in Course 4, combustion analysis, and a group of experiments chosen to illustrate research methods. The course counts as three hours. Lectures, *Tu.*, *Th.*, at 8, and four hours in the laboratory. CHEM. LAB. ASSOCIATE PROFESSOR HILL. (VII)

Course 8 is elective for those who have taken Course 4, and who are taking, or have taken, Course 5.

[9. CHEMISTRY SEMINARY. Lectures, assigned readings, and reports on the present status of chemistry. *Three times a week.* PROFESSOR HOOVER and ASSOCIATE PROFESSOR HILL.]

Course 9 is elective for those who have taken Courses 3 and 4. It is omitted in 1922-23.

10. **ADVANCED QUANTITATIVE ANALYSIS.** A course in modern industrial quantitative analysis. Selected methods for the analysis of ferrous and non-ferrous alloys, minerals and ores, soaps, oils, fats, waxes, etc. During the latter part of the year the laboratory work is along lines selected by the individual students, and the lecture material deals with metallography and physical testing. One lecture and two laboratory periods, counting as *three* hours. Lecture, *Fri.*, at 9. CHEM. LAB. MR. CAVELTI. (II)

Course 10 is elective for those who have taken Courses 4 and 5.

11. **PHYSIOLOGICAL CHEMISTRY.** Lectures and laboratory work. The following subjects are considered: Enzymes, fats, carbohydrates, proteins, digestion, absorption, nutrition, blood, milk, composition and analysis of urine. Two lectures or class discussions and one four-hour laboratory period, counting as *three* hours. Lectures, *Mon.*, *Wed.*, at 10. Laboratory, *Tu.*, 1-5. 3 J. H. ASSOCIATE PROFESSOR HILL. (III)

Course 11 is elective for those who have taken Course 4 in chemistry and who have taken, or are taking, Course 5 in chemistry, and Course 1 in biology.

\*12. **INORGANIC RESEARCH.** Investigation of special problems in analytical and physical chemistry. PROFESSOR HOOVER.

Course 12 is elective, with the permission of the instructor, for those who have taken Courses 4 and 7.

\*13. **ORGANIC RESEARCH.** Investigation of special problems in synthetic, theoretical, and applied organic chemistry. ASSOCIATE PROFESSOR HILL.

Course 13 is elective, with the permission of the instructor, for those who have taken Course 8.

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Students planning to specialize in chemistry are advised to elect some or all of the following courses in other departments: Biology 12, Geology 5, Mathematics 7, Physics 7.

## ECONOMICS AND SOCIAL SCIENCE.

PROFESSORS TUTTLE, FISHER, AND WILLIAMSON; MR. ELIOT.

1. PRINCIPLES OF ECONOMICS. This course gives the student a scientific analysis of modern industrial society, and acquaints him with the principles of political economy and correct methods of analysis. The aim is to give, first, discipline in habits of scientific thinking in regard to all social phenomena, and, second, perspective and a basis of sound knowledge for further and more intensive study in the general field of economics and social science. The means of instruction in this and in the other courses in economics are textbooks, lectures, discussions, reports, collateral reading, and frequent written tests. SECTIONS 1 and 2, *Mon., Wed., Fri., at 9.* 14 and 31 F. H. SECTION 3, *Tu., Th., Sat., at 8.* 14 F. H. SECTION 4, *Mon., Wed., Fri., at 2.* 37 F. H. PROFESSORS FISHER and WILLIAMSON, and MR. ELIOT. (II)

Course 1 is elective for Sophomores.

2. ECONOMIC HISTORY. Industrial and commercial development from the middle of the eighteenth century to the Great War. The course begins with the history of the industrial revolution, and includes the study of international trade, the free trade movement in England, protectionism in France, Germany, and the United States, railways and waterways, trans-oceanic competition, agriculture and manufacturing, particularly the rise of the steel and textile industries in Western Europe, England, and the United States. *Tu., Th., Sat., at 8.* 28 F. H. MR. ELIOT. (VII)

Course 2 is elective for those who have taken Course 1, and, with the permission of the instructor, for those who are taking Course 1.

3. CORPORATIONS, TRUSTS, AND MONOPOLIES. The historical development and analysis of the different forms of industrial organization, including the single proprietorship, partnership, joint-stock company, and corporation, and the later developments, such as the pool, trust, holding company, consolidated corporation, and "community of interest." Critical study of the economic and social effects of great combinations, illustrated by documents. The elements of

corporation finance, with especial reference to organization and management. The evils of corporate organization, such as fraudulent promotion, over-capitalization, and manipulation. Public policy toward corporations. Conditions insuring progress in method and organization. The evil effects of monopoly, and the problems of control. Legislation in the United States and other countries, and important legal decisions. Public service corporations; public utilities commissions. The principles of transportation and railroad problems, economic, social and legal; the Interstate Commerce Commission. *Tu., Th., Sat., at 11.* 14 F. H. PROFESSOR FISHER. (X)

Course 3 is elective for Juniors who have received grade C—or better in Course 1, and for Seniors who have taken Course 1.

4. MONEY AND BANKING. The theory of money, and the principles of monetary circulation. The origin and development of money; coinage; monometallism and bimetalism. The monetary history of the United States, England, France, and Germany. The production of the precious metals, and its relation to monetary policy. International bimetalism. The evolution of the gold standard. The principles of credit and the nature and functions of credit instruments. The theory and history of government issues of paper currency, and especially the "greenback" experiment in the United States. The theory and history of banking, and the evolution of bank-note currency and deposit currency. The development of the banking systems of France, England, Germany, and the United States. Monetary and banking problems of the United States. Foreign exchange. Particular attention is given to the study of the Federal Reserve System, and of monetary and banking problems of the war and reconstruction. *Tu., Th., Sat., at 9.* 14 F. H. PROFESSOR FISHER. (VIII)

Course 4 is elective for Seniors who have taken Course 1, and, with the permission of the instructor, for Juniors who have received grade C—or better in Course 1.

5. PUBLIC FINANCE. This course covers, in a general manner, the entire field of public finance, but pays special attention to taxation. Public expenditures, revenues from

various sources, public debts, and budgets will be studied with reference both to theory and to the practice of various nations. *Mon., Wed., Fri., at 11.* 14 F. H. PROFESSOR WILLIAMSON. (IV)

Course 5 is elective for Juniors who have received grade C— or better in Course 1, and for Seniors who have taken Course 1.

\*6. STATISTICS AND ACCOUNTING. The first part of this course deals with the collection, presentation, analysis and interpretation of economic statistics. Special attention is given to tabulating data, the use and construction of graphs and diagrams, frequency-distributions, and computation and use of averages, index numbers, dispersion, and correlation. A critical examination is made of modern statistical practice, and the sources of statistics are pointed out and evaluated. Besides lectures and class-room discussions, section exercises are conducted to give practice in statistical method, and in the diagrammatic and graphical presentation of data. The second part of the course presents the principles and methods of accounting. Accounting terminology and the meaning of various accounts are studied. The construction and analysis of balance sheets and income statements are covered. Special attention is given to the treatment of costs, depreciation funds, reserves, surpluses, profits, etc. The work is carried on by means of lectures, class-room discussions, and outside problems. *Mon., Wed., Fri., at 1, and one laboratory hour, four hours counting as three.* 37 F. H. and Statistical Laboratory in O. H. PROFESSOR WILLIAMSON. (V)

Course 6 is elective, with the permission of the instructor, for those who have completed two courses in the department with grade C— or better.

Students interested in mathematics are advised to take Mathematics 11 and 12 either the year after, or the same year as, they take Economics 6.

7. LABOR, SOCIALISM, AND SOCIAL REFORM. The evolution of the modern industrial laborer, and his position under the wages system. The *laissez-faire* policy and the rise of the factory system. Socialism; the important socialistic theories and the socialistic movement. Social reform; theory of social

reform, and practical movements and programs which aim to improve the industrial laborer's place in industry and society. Special attention is given to coöperation, profit sharing, trade unionism and its policies, collective bargaining, industrial arbitration, scientific management, labor legislation, industrial government, and other aspects of the problem of the place of the laborer in industry. The work is carried on by means of lectures, reports, discussions, and frequent written tests on assigned readings. *Mon., Wed., Fri., at 9.* 11 F. H. PROFESSOR TUTTLE. (II)

Course 7 is elective for Juniors who have received grade C— or better in Course 1, and for Seniors who have taken Course 1.

8. SOCIOLOGY. The principles of sociology. A discussion of the theory of adaptation, and the philosophical background of modern sociological thought. The analysis of the forces and factors shaping social institutions and determining national welfare. The study of selected problems, including poverty and social unrest. Lectures, reports, discussions, and written tests on assigned reading. *Tu., Th., Sat., at 10.* 14 F. H. MR. ELIOT. (IX)

Course 8 is elective for Juniors who have received grade C— or better in Course 1, and for Seniors who have taken Course 1.

9. ADVANCED ECONOMICS. Analytical, critical, and evolutionary study of economic concepts and doctrines in the interest of consistent and constructive economic theory. Readings in the works of economists, and lectures and discussions on current tendencies and the distinctive contributions of the several schools of modern economic thought. *Mon., Wed., Fri., at 2.* 31 F. H. PROFESSOR TUTTLE. (VI)

Course 9 is elective for those who have received grade C— or better in Course 1. Students majoring in economics are advised to take this course.

\*10. ECONOMICS SEMINARY. Subject for 1922-23: selected economic problems. A problem for individual investigation and report is chosen by the student. The student works under the direction and supervision of the instructor, is expected to report weekly on the progress made, and finally to prepare a thesis exhibiting the results of the year's research. *Mon.,*

7-10 p. m., counting as three hours for the year. 10 F. H. PROFESSOR TUTTLE.

Course 10 is elective, with the permission of the instructor, for those Seniors who have shown, in earlier courses in the department, the ability to undertake individual research.

## ENGLISH.

PROFESSORS MEAD, FARLEY, CONLEY, AND WOODBRIDGE;  
ASSISTANT PROFESSOR SNOW; MR. TELFER.

1. ENGLISH COMPOSITION. Each member of the class is required to write numerous themes, making practical application of various rhetorical principles. These themes are criticised by the instructor and discussed with the pupil at hours specially appointed. Considerable collateral reading is assigned which furnishes models of the various types of writing. Attendance at the consultation hour is required. SECTIONS 1 and 2, *Mon., Wed., Fri., at 8*; SECTION 3, *Mon., Wed., Fri., at 11*; SECTION 4, *Tu., Th., Sat., at 8*; SECTIONS 5 and 6, *Mon., Wed., Fri., at 1*; SECTIONS 7 and 8, *Mon., Wed., Fri., at 10*. SECTIONS 1, 3, 5, 29 F. H.; SECTION 8, 11 F. H.; SECTIONS 2, 7, 12 F. H.; SECTION 6, 28 F. H.; SECTION 4, B, F. H. PROFESSORS CONLEY and WOODBRIDGE; ASSISTANT PROFESSOR SNOW; MR. TELFER. (VI)

Course 1 is required of Freshmen.

\*2. NARRATIVE WRITING. In this course a large number of narrative papers varying in length are required. Collateral reading in the novel and the short story is assigned, and some of the themes are devoted to criticism of the reading. *Tu., Th., at 2*. 23 F. H. PROFESSOR CONLEY. (XII)

Course 2 is elective, with the permission of the instructor, for those who have taken Course 1.

3. ENGLISH COMPOSITION. A study of various types of composition, with constant practice in theme-writing. Each member of the class is required to present on an average at least one thousand words a week. None of the essays may be omitted, and most of them are required to be rewritten.



The written work is criticised in the class-room, and also at hours appointed by the instructor for personal conference. Thursday at 3 is reserved for criticism. *Tu., at 3 (counting as two hours).* 29 F. H. PROFESSOR MEAD. (XVII)

Course 3 is elective for Sophomores.

4. ARGUMENTATION. A course in the theory and practice of argument, designed to train students in the discovery and proper use of materials, in logical methods of thinking, and in clear, forceful expression. The work comprises the study of a text, the preparation of briefs, the writing and delivery of arguments both formal and informal, and practice in debate. The course, to some extent, is co-ordinated with the public debates of the college. *Mon., Wed., Fri., at 8.* Room B, F. H. ASSISTANT PROFESSOR SNOW. (I)

Course 4 is elective for Sophomores who have taken, or are taking, Philosophy I; for others, with the permission of the instructor.

5. HISTORY OF THE ENGLISH LANGUAGE. The aim of this course is to show in lectures and class discussions how English life and culture are illustrated by changes in the meaning of words since the Norman Conquest. Special attention is given to the formation of a working English vocabulary. As far as possible the work is brought into connection with the study of literature. The collateral work involves the use of various books of reference, and in particular of Krapp's Modern English, Trench's English Past and Present, and Skeat's Concise Etymological Dictionary. *Mon., Wed., Fri., at 9.* 27 F. H. PROFESSOR MEAD. (II)

Course 5 is elective for Juniors.

6. GENERAL INTRODUCTION TO ENGLISH LITERATURE. An outline of the history of the literature, beginning with the Renaissance. Reading and discussion of representative works illustrating different varieties and periods of English literature. SECTION 1, *Tu., Th., Sat., at 8.* 29 F. H. SECTION 2, *Tu., Th., Sat., at 9.* 12 F. H. SECTION 3, *Tu., Th., Sat., at 10.* 29 F. H. PROFESSORS FARLEY and WOODBRIDGE, and ASSISTANT PROFESSOR SNOW. (XVI)

Course 6 is elective for Sophomores.

7. SHAKESPEARE. Lectures, discussions, and collateral reading. Fifteen or sixteen plays are studied without minute attention to the text. *Tu., Th., Sat., at 11.* 23 F. H. PROFESSOR WOODBRIDGE. (X)

Course 7 is elective for those who have taken Course 6.

[8. OLD ENGLISH (Anglo-Saxon). An elementary course in Old English, accompanied by a brief course in the history of the English language. A competent acquaintance with Old English is fundamental to the study of the English language and of the early English literature. The principal reading at the outset is in the Gospel of St. John. The grammar is drawn from Cook's First Book in Old English, with copious illustrations and explanations based upon the texts read. The books needed are: Cook, A First Book in Old English; Bright, The Gospel of John in West Saxon; Bradley, The Making of English. *Three times a week.* PROFESSOR MEAD.]

Course 8 is elective for Sophomores, but those only are advised to elect it who have shown some aptitude for the study of language and have formed habits of accuracy. It is omitted in 1922-23.

[9. OLD ENGLISH (Anglo-Saxon). An advanced course in Old English prose and poetry. The first half-year is mainly occupied with historical prose and war poetry, and the second half-year with Beowulf. Lectures illustrated by lantern slides discuss the main features of Old English civilization. *Twice a week.* PROFESSOR MEAD.]

Course 9 is elective for Juniors. It is omitted in 1922-23.

10. THE AGE OF CHAUCER. A study of fourteenth century literature and the social life described in Chaucer's Canterbury Tales, Piers the Plowman, and the verse romances, with an introductory course in the writers preceding Chaucer, as represented in Cook's Literary Middle English Reader. Lectures discussing typical aspects of social, religious, industrial, and court life, with assigned readings, and class discussions. *Wed., Fri., at 3.* 29 F. H. PROFESSOR MEAD. (XVII)

Course 10 is elective for Juniors.

11. ARTHURIAN ROMANCES. The sources and history of the Arthurian Romances. Class readings in some of the

better known forms of Arthurian story, such as Tennyson's Idylls of the King, and their sources, and lectures on the older literature that furnished material to Tennyson and other modern poets. The social conditions out of which the romances grew receive special attention, and the life of the Middle Ages is discussed in lectures, illustrated by lantern slides. *Tu., Th., at 9.* 29 F. H. PROFESSOR MEAD. (VIII)

Course 11 is elective for Juniors.

[12. SHAKESPEARE. Six plays. *Three times a week.*]

Course 12 is elective for those who have taken Course 6 or Course 7. It is omitted in 1922-23.

13. ENGLISH LITERATURE OF THE EIGHTEENTH CENTURY. Lectures, discussions, collateral reading, critical reports. The course includes the chief poets and prose writers between Dryden and Wordsworth. *Mon., Wed., Fri., at 2.* 23 F. H. MR. TELFER. (VI)

Course 13 is elective for those who have taken Course 6 or Course 7.

[14. ENGLISH POETS AND ESSAYISTS OF THE ROMANTIC PERIOD. Interpretation and discussion of texts; lectures; critical reports. The authors studied are Wordsworth, Coleridge, Byron, Shelley, Keats, Lamb, Hazlitt. *Three times a week.*]

Course 14 is elective for those who have taken Course 6 or Course 7. It is omitted in 1922-23.

15. ENGLISH POETS AND ESSAYISTS OF THE VICTORIAN PERIOD. Interpretation and discussion of texts; lectures; critical reports. The authors studied are Carlyle, Tennyson, Ruskin, Arnold (verse and prose), Browning. *Mon., Wed., Fri., at 10.* 23 F. H. PROFESSOR FARLEY. (III)

Course 15 is elective for those who have taken Course 6 or Course 7.

[16. AMERICAN LITERATURE. Lectures; interpretation and discussion of texts; collateral reading; critical reports. The course considers the more notable poets and prose writers of

America, beginning with the colonial period and continuing to the end of the nineteenth century. *Three times a week.*]

Course 16 is elective for those who have taken Course 6 or Course 7. It is omitted in 1922-23.

[17. THE ENGLISH DRAMA. An historical survey, from the miracle plays to the end of the nineteenth century. *Three times a week.*]

Course 17 is elective for those who have taken Course 6 or Course 7. It is omitted in 1922-23.

[18. THE ENGLISH ESSAY. The development of the essay, with a study of models and an examination of the principles of style. This is a practical course, with close criticism and rewriting of papers, and is designed for students who are prepared to do advanced work. *Twice a week.* PROFESSOR MEAD.]

Course 18 is elective for Juniors. It is omitted in 1922-23.

19. ENGLISH FICTION. Lectures and recitations on the work of the more important novelists of the eighteenth and nineteenth centuries; collateral readings, class discussions, and written reports. *Mon., Wed., Fri., at 1.* 23 F. H. PROFESSOR CONLEY. (V)

Course 19 is elective for those who have taken Course 6 or Course 7.

20. MODERN DRAMA. A study of the more significant tendencies in dramatic writing, beginning with Ibsen. The course aims to give the student an acquaintance with the chief types of modern drama and with representative works of the more important writers. The first semester is devoted to continental drama; the second to English, Irish, and American. Lectures, discussions, reports. *Tu., Th., at 1.* 23 F. H. PROFESSOR WOODBRIDGE. (XI)

Course 20 is elective for those who have taken Course 6 or Course 7.

21. THE ELEMENTS OF LITERARY CRITICISM. A study of the qualities essential to various forms of good literature, and of the principles that are fundamental to sound critical judg-

ment. About half the course is devoted to a consideration of the significance of poetry as a means of expression, and of the methods by which the poet achieves his effects. Winchester's *Principles of Literary Criticism* and Andrews' *The Writing and Reading of Verse* are used as text-books. *Tu., Th., at 10.*  
23 F. H. PROFESSOR FARLEY. (IX)

Course 21 is elective for those who have taken Course 6 or Course 7.

\*22. SEMINARY IN ENGLISH LITERATURE. In 1922-23 the subject for special study is: English romanticism from its beginnings early in the eighteenth century to its culmination in the nineteenth. *Mon., Wed., Fri., at 9.* 23 F. H. PROFESSOR FARLEY. (II)

Course 22 is elective, with the permission of the instructor, for Seniors who have taken Course 6 or Course 7, and one other year-course in English literature.

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ADVANCED COMPOSITION. Beginning in 1923-24 Professor Woodbridge will offer a course intended to give those who have mastered the fundamentals of composition an opportunity to attempt such kinds of literary work as they may choose.

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## ETHICS AND RELIGION

ASSISTANT PROFESSOR CHANTER.

I. THE ENGLISH BIBLE. An introductory course. The object of the course is to give a knowledge of the main outlines of the biblical literature, with sufficient attention to the results of critical scholarship to place the student in touch with the modern view of the value and authority of the Bible. *Mon., Wed., Fri., at 8.* 28 F. H. (I)

Course 1 is elective for Freshmen.

1A. THE ENGLISH BIBLE. Reading and discussion of selected passages from the Old and New Testaments. Moulton's *Modern Reader's Bible* is used as the text. *Tu., at 11.*  
13 F. H. (X)

Course 1A is elective for those who have taken or are taking Course 1.

2. ETHICS. An introductory course. First semester: Outlines of ethical theory. Second semester: Problems of individual and social ethics. *Mon., Wed., Fri., at 10.* 28 F. H. (III)

Course 2 is elective for Juniors.

[3. THE PHILOSOPHY OF RELIGION. The rise and development of the principal religions and religious ideas. *Three times a week.*]

Course 3 is elective for Juniors. It is omitted in 1922-23.

[\*4. SEMINARY IN THE HISTORY OF ETHICS. Studies in the great periods of ethical thought. *Twice a week.*]

Course 4 is elective, with the permission of the instructor, for those who have taken Course 2, or Courses 2 and 3 in philosophy. Course 4 is omitted in 1922-23.

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## GEOLOGY.

ASSOCIATE PROFESSOR FOYE.

1. PHYSIOGRAPHY. The study of the earth's surface, and the forces which have moulded it into its present form. Lectures, *Mon., Wed., Fri., at 10.* Laboratory, *Tu., Th., or Fri., 2-5 (first half-year).* 8 J. H. (III)

Course 1 is elective for Freshmen.

2. STRUCTURAL GEOLOGY. The minerals and rocks forming the earth's crust, their structure, and the forces which have formed and altered them. Field trips every Saturday after April 1. Lectures, *Mon., Wed., Fri., at 10.* Laboratory, *Tu., Th., or Fri., 2-5 (second half-year).* 8 J. H. (III)

Course 2 is elective for those who have taken Course 1, and who take, or have taken, Chemistry I or 2.

[3. METEOROLOGY. A course designed to give a knowledge of the laws controlling weather and climate. Lectures and laboratory work. *Three times a week.*]

Course 3 is elective for those who have had, in school or college, a course each in chemistry and physics. It is given in alternate years with Course 4 and is omitted in 1922-23.

4. ECONOMIC GEOLOGY. A study of the natural resources occurring within the earth's crust. Lectures, recitations, and reports. *Tu., Th., Sat., at 10 (first half-year)*. 8 J. H. (IX)

Course 4 is elective for those who have taken Courses 1 and 2.

5. HISTORICAL GEOLOGY. The history of the earth as revealed in the sedimentary rocks. Lectures and laboratory work. *Mon., Wed., Fri., at 11 (second half-year)*. 10 J. H. (IV)

Course 5 is elective for those who have taken Courses 1 and 2 or the first half of Biology 9.

[6. REGIONAL GEOLOGY OF THE UNITED STATES. The geography, historical and economic geology of limited portions of the United States. *Three times a week (first half-year)*.]

Course 6 is elective for those who have taken Courses 1, 2, and 5. It will be given in alternate years with Courses 7 and 8, but is omitted in 1922-23.

[7. CRYSTALLOGRAPHY AND DETERMINATIVE MINERALOGY. A study of the crystallography and chemistry of the commoner minerals. *Three lecture and four laboratory hours, counting as four hours (first half-year)*.]

Course 7 is elective for those who have had solid geometry, and a college course in chemistry. It is omitted in 1922-23.

[8. DESCRIPTIVE MINERALOGY. The properties, occurrences, and uses of the commoner minerals. *Three lecture and four laboratory hours, counting as four hours (second half-year)*.]

Course 8 is elective for those who have taken Course 7. It is omitted in 1922-23.

\*9. GEOLOGY SEMINARY. Lectures, readings, and reports on field and laboratory problems in structural geology. *Mon., Wed., Fri., at 9 (second half-year)*. J. H. (II)

Course 9 is elective, with the permission of the instructor, for those who have taken Courses 1, 2, 5, and 6.

## GERMAN.

PROFESSORS CAMPBELL AND CURTS; DR. BAERG.

1. **ELEMENTARY.** An introduction to grammar and composition. Reading of easy narrative prose, with practice in sight translation. SECTION 1, *Mon., Wed., Fri., at 8*; SECTION 2, *Mon., Wed., Fri., at 1*; SECTION 3, *Tu., Th., Sat., at 9*; SECTION 4, *Tu., Th., Sat., at 11.* 11 F. H. PROFESSORS CAMPBELL and CURTS, and DR. BAERG. (XV)

Candidates for the degrees of Ph. B. and B. S. are required to complete the equivalent of German 1 and 2, as well as French 1 and 2. Such of these courses as they have not taken and passed before entering college, they must take as soon as practicable after entering.

2. **INTERMEDIATE.** Reading of narrative and dramatic prose and poetry, with a review of elementary grammar, accompanied by prose composition. SECTION 1, *Mon., Wed., Fri., at 8.* 31 F. H. SECTION 2, *Mon., Wed., Fri., at 1.* 39 F. H. SECTION 3, *Tu., Th., Sat., at 8.* 31 F. H. PROFESSORS CAMPBELL and CURTS, and DR. BAERG. (XV)

Course 2 is elective for those who have taken Course 1, or who have passed elementary German for admission.

3. **ADVANCED.** Rapid reading of historical and literary works bearing on some of the more generally interesting periods of German history. The historical or literary significance of the subject matter is discussed. Two or three texts are assigned for outside reading and made the basis of written reports. There is a brief review of German grammar and work in prose composition. As emphasis is laid on a practical training in the language, German is used in the class as far as is convenient. *Mon., Wed., Fri., at 10.* 36 F. H. PROFESSOR CAMPBELL. (III)

Course 3 is elective for those who have taken Course 2, or who have passed intermediate German for admission.

4. **SCIENTIFIC.** Reading from German scientific literature. In so far as possible, such selections are made for class reading as will emphasize the unity and correlation of the natural sciences and at the same time give the student some of the



latest phases of German scientific thought and method. The class work is supplemented by parallel assignments from standard articles in that particular science in which the student is specializing. *Mon., Wed., Fri., at 11.* 12 F. H. PROFESSOR CURTS. (IV)

Course 4 is elective for those who have taken Course 2, or who have passed intermediate German for admission. An elementary knowledge of physics and chemistry is essential.

5. GERMAN LIFE AND INSTITUTIONS. This course aims to make the student familiar with German civilization and to give him fluency in the correct use of the language. The materials for reading and discussion deal with the Germany of to-day, its political organization, institutions, and customs, with some reference to their development. All class exercises, lectures, and themes are in German. *Tu., Th., Sat., at 9.* 39 F. H. DR. BAERG. (VIII)

Course 5 is elective for those who have taken Course 3 or its equivalent.

6. LITERATURE OF THE CLASSICAL PERIOD. A study of the contribution of Lessing, Goethe, Schiller, and other writers of the classical period in Germany in the second half of the eighteenth century to the various phases of modern thought and to the development of modern literature, with lectures, class assignments, and parallel readings. The collateral reading is made the subject of written reports. *Tu., Th., Sat., at 8.* 36 F. H. PROFESSOR CURTS. (VII)

Course 6 is elective for those who have taken Course 3 or its equivalent.

7. LITERATURE OF THE EARLY NINETEENTH CENTURY. This course is an introduction to the study of the German romantic movement, in itself and in its relation to classicism and realism. The lectures cover the chief literary works, and include a discussion of the philosophical, æsthetic, and religious views of the period, and of the broader tendencies underlying the movement, recent theories on the subject being given consideration. Neo-romantic tendencies in mod-

ern literature likewise receive attention. Appropriate illustrative reading is assigned for class-room and for private study. *Mon., Wed., Fri., at 11.* 36 F. H. PROFESSOR CAMPBELL. (IV)

[8. LITERATURE OF THE LATER NINETEENTH CENTURY. This course is an introduction to the study of realism in modern German literature: Young Germany, the poetic realists, and naturalism. It is conducted on the plan of Course 7, by lectures, with illustrative material in class and for private study. *Three times a week.* PROFESSOR CAMPBELL.]

Courses 7 and 8 are given in alternate years, and are elective for those who have taken Course 3 or its equivalent. Course 8 is omitted in 1922-23.

[9. HISTORY OF GERMAN LITERATURE. A course of lectures covering the history of the literature in outline from the earliest period to the time of Goethe, with parallel readings.]

[10. ADVANCED GRAMMAR AND COMPOSITION. An intensive review of the elementary phonology and forms of the language, followed by a study of the syntax and an introduction to the historical grammar of German. Regular exercises in writing German. In part the class exercises are conducted in German, and there is constant practice in speaking the language. The course is designed especially for those preparing to teach German.]

[11. MIDDLE HIGH GERMAN. The purpose of the course is to enable the student to obtain a good reading knowledge of the literary language of Germany about the year 1200. The basis of the work is the *Nibelungenlied*, of which considerable portions are translated into modern German. Some study is made of the *Nibelungen "saga,"* both as a part of the regular assignments and by way of lectures by the instructor. Some of the lyrics of the period are also read.]

Courses 9, 10, and 11 are elective for those who have taken Course 3 or its equivalent. They are omitted in 1922-23.

## GREEK.

PROFESSORS HEIDEL AND HEWITT.

A BEGINNERS' COURSE. Grammar and exercises; Xenophon,—Anabasis. *Mon., Wed., Fri., at 1; Tu., at 2.* 31  
F. H. PROFESSOR HEWITT. (V)

Credit for Course A will be given only to students who attain in it a grade of C— or above and subsequently pass Course B and Course 1 in Greek.

B HOMER, —Odyssey. *Tu., Th., at 8 (first half-year).*  
37 F. H. PROFESSOR HEIDEL. (VII)

Course B is intended for students who have taken Course A or its equivalent, but have read little or no Homer.

1. PLATO,—Euthyphro, Apology, and Crito; XENOPHON,—Selections from the Memorabilia; LYSIAS,—Selected Orations. *Mon., Wed., Fri., at 8.* 37 F. H. PROFESSOR HEIDEL. (I)

Course 1 is intended for students who have completed the entrance requirements in Greek, or Courses A and B. It may, however, be taken by those who have completed only Course A, or its equivalent, provided that they have attained a grade of C— or above, and are taking Course B.

Course 1 in Greek, or Course 1 in Latin, is required of candidates for the B. A. degree.

2. EURIPIDES,—Alcestis; ARISTOPHANES,—Clouds; LUCIAN,—Selections. *Mon., Wed., at 8.* 12 S. C. PROFESSOR HEWITT. (I)

Course 2 is elective for those who have taken Course 1.

3. GREEK PROSE COMPOSITION. *Twice a week (second half-year), the hours to be determined.* PROFESSOR HEIDEL.

Course 3 is elective for those who take, or have taken, Course 2.

[4. HISTORY OF GREEK LITERATURE. Recitations, lectures, and collateral reading are supplemented by a more intensive study of selected portions of the literature. Especial stress is laid upon the relation between the Greek and English

literatures, with respect both to literary form and to subject matter. Knowledge of Greek is not required. *Twice a week.* PROFESSOR HEWITT.]

Course 4 is elective for Juniors, or for Sophomores who are taking Course 2.

Courses 3 and 4 are given in alternate years. Course 4 is omitted in 1922-23.

[5. PLATO,—Gorgias; DEMOSTHENES,—The Oration on the Crown. Collateral study of Greek rhetoric and oratory. *Three times a week (first half-year).* PROFESSOR HEIDEL.]

[6. THE GREEK LYRIC POETS,—including selections from Pindar and Bacchylides. *Three times a week (second half-year).* PROFESSOR HEIDEL.]

Courses 5 and 6 are elective for those who have taken Course 2. They are omitted in 1922-23.

7. AESCHYLUS,—Prometheus Bound. SOPHOCLES,—Oedipus the King, and Antigone. Lectures and collateral reading on the Greek theatre (*first half-year*). EURIPIDES,—Ion and Cyclops. ARISTOPHANES,—Birds. Collateral reading on the Greek drama (*second half-year*). *Mon., Wed., Fri., at 10.* 33 F. H. PROFESSOR HEIDEL. (III)

Course 7 is elective for those who have taken Course 2.

8. NEW TESTAMENT IN GREEK. *Tu., Th., at 11 (first half-year).* 12 S. C. PROFESSOR HEWITT. (X)

Course 8 is elective for those who take, or have taken, Course 2.

9. GREEK CIVILIZATION. Lectures and collateral reading on the political institutions, the art, religion, and scientific thought of ancient Greece in relation to modern civilization. Knowledge of Greek is not required. *Mon., Wed., Fri., at 11.* 37 F. H. PROFESSOR HEIDEL. (IV)

Course 9 is elective for Juniors.

[10. PLATO,—Republic. *Three times a week (first half-year).* PROFESSOR HEIDEL.]

[II. GREEK LITERARY CRITICISM. Aristotle's *Poetics*, the treatise *On the Sublime*, and selections from Dionysius of Halicarnassus. *Three times a week (second half-year)*. PROFESSOR HEIDEL.]

Courses 10 and 11 are elective for those who have taken Courses 5 and 6, or Course 7. They are omitted in 1922-23.

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## HISTORY.

PROFESSORS DUTCHER AND WRISTON; DR. WILKINSON.

I. ENGLISH HISTORY. The history of England from the earliest times to the present day. Cross's *Shorter History of England and Greater Britain* is used as the text-book, and there is required, in addition, the reading of Wakeman's *History of the Church of England*, Cheyney's *Introduction to the Industrial and Social History of England*, Montague's *Elements of English Constitutional History*, and a few selections from Adams and Stephens's *Select Documents of English Constitutional History*. Lectures and recitations. *Tu., Th., at 10 (34 S. L.), also a third hour in sections*. SECTIONS 1, 2, 3, 4, *Fri., at 9, 10, 11, 1*. SECTIONS 5, 6, 7, 8, *Mon., at 9, 10, 11, 1*. Room B, F. H. PROFESSOR WRISTON. (IX)

Course 1 is elective for Freshmen. This course, and Ethics 1, are the only courses in the second required group of studies (see p. 114) open to Freshmen. Owing to its elementary character this course should be elected not later than the Sophomore year. Course 1, or its equivalent, is prerequisite to the advanced courses in history, except Course 9.

Students electing history as their major study must take Course 1 not later than the Sophomore year, and must complete the nine hours required for a major in this department by taking either courses in American history or courses in European history and government.

N. B. For Courses 2, 3, 4, 5, 6, and 10, ability to read at least one modern language besides English is almost indispensable.

2. HISTORY OF THE EXPANSION OF EUROPE. First semester: Portuguese, Spanish, French, Dutch, and English

exploration, trade, and colonization in America, Africa, and Asia from the time of Henry the Navigator to the middle of the eighteenth century, with special attention to the administrative systems, the regulation of trade and industry, the treatment of weaker races, the activities of Christian missionaries, and similar problems. Second semester: a similar study of the period since the middle of the eighteenth century, with special reference to the English in India, Canada, Australia, and South Africa, to the Dutch in the East Indies, to the liberation of South America, and to the partition of Africa. Lectures, recitations, and essays. *Mon., Wed., Fri., at 10. 15 F. H.* PROFESSOR DUTCHER. (III)

Course 2 is elective for Sophomores who have attained a grade of C— in Course 1, and for Juniors and Seniors who have taken any course in history. This course alternates with Course 7.

[3. ANCIENT HISTORY. First semester: after a brief survey of the earliest times, the history of Greece from the beginning of the Persian wars, and of Rome from the beginning of the Punic wars, is carried to 133 B. C. Second semester: the history of the Roman republic after 133 B. C., of the Roman empire, and of the so-called Dark Ages to the death of Charles the Great, 814 A. D., with special attention to the rise of Christianity and of Mohammedanism. Botsford's History of the Ancient World, supplemented by seven other books on special periods. Lectures, recitations, and essays. *Three times a week.* PROFESSOR DUTCHER.]

Course 3 is elective for Sophomores who have attained a grade of C— in Course 1, and for Juniors and Seniors who have taken any course in history or who are taking their major in Greek or Latin. By special permission of the instructor, either semester may be elected separately, though it is strongly advised that the course be taken as a whole. Courses 3 and 4 are given in alternate years, Course 3 being omitted in 1922-23.

4. MEDIAEVAL HISTORY. First semester: from the death of Charles the Great, 814 A. D., to the close of the thirteenth century, with the empire, the papacy, and France as the central factors, and with special attention to feudalism, the cru-

sades, and the rise of the towns. Second semester: the development of culture and of the vernacular literatures, the rise of the universities, the renaissance, the age of discovery, the protestant reformation, the counter-reformation, and the wars of religion, to the treaties of Westphalia, covering approximately from 1300 to 1660. Emerton's Mediaeval Europe and Beginnings of Modern Europe, supplemented by other books on special periods. Lectures, recitations, and essays. *Tu., Th., Sat., at 9.* 15 F. H. PROFESSOR DUTCHER.

(VIII)

Course 4 is elective for Sophomores who have attained a grade of C— in Course 1, and for Juniors and Seniors who have taken any course in history. This course alternates with Course 3.

5. MODERN EUROPEAN HISTORY. First semester: the age of Louis XIV, the rise of Russia and of Prussia, the enlightened despotism, the French revolution, and the Napoleonic era. Second semester: the Holy Alliance, the revolutionary movements, the development of constitutional government, the unification of Germany and of Italy, with special attention to the more important events and movements since 1870. Stephens's Syllabus of Modern European History, Robinson and Beard's Readings in Modern European History, Hayes's Political and Social History of Modern Europe, and other books on special periods. Lectures, recitations, and essays. *Mon., Wed., Fri., at 8.* 15 F. H. PROFESSOR DUTCHER.

(I)

Course 5 is elective for Sophomores who have attained a grade of C— in Course 1, and for Juniors and Seniors who have taken any course in history, or who are taking their major in German or Romance languages. In 1922-23 the second semester may be elected separately with the permission of the instructor.

\*6. HISTORY SEMINARY. Topics for individual research and report are regularly assigned, and the work of the student is subject to the constant supervision and criticism of the instructor. In the course of the year, each student is required, as a test of his ability to do research and to present his results

in a correct and lucid manner, to prepare an essay or thesis of considerable length upon some topic studied in the course. During the year 1922-23, the course is devoted to studies in international law and diplomatic relations, with special reference to American policy in the Caribbean since 1898. *Tu., 7-10 p. m., counting as three hours for the year.* 10 F. H. PROFESSOR WRISTON.

Course 6 is elective, with the permission of the instructor, for Seniors who have shown, in earlier courses in the department, ability to do advanced work in history.

[7. UNITED STATES HISTORY, 1750-1829. First semester: the French and Indian war, the English colonial system and the struggle precipitated by the attempts of George III. and his ministers to remodel it, the war for independence, the confederation, the framing and ratification of the state and federal constitutions. Second semester: the first six presidents, their personalities, problems, and policies, the problem of relations with Europe, the war of 1812, the Monroe doctrine, national expansion, growth of democracy. The important constitutional, political, economic, and social developments are emphasized. Channing's History of the United States, volumes 2, 3, 4 and 5, and other works. Lectures, recitations, and essays. *Three times a week.* PROFESSOR WRISTON.]

Course 7 is elective for those who have taken any course in history or economics. Courses 2 and 7 are given in alternate years, Course 7 being omitted in 1922-23.

8. UNITED STATES HISTORY, 1829-1920. First semester: The personalities, policies, and achievements of the more important presidents and political leaders, and the important constitutional, political, economic, and social developments to the close of the civil war. Second semester: Reconstruction, the new economic and social problems, the United States as a colonial and world power. Channing's History of the United States, Volume 5, Lingley's History of the United States since the Civil War, and collateral readings. Lectures, recitations, and essays. *Tu., Th., Sat., at 8.* 15 F. H. DR. WILKINSON.  
(VII)

Course 8 is elective for those who have taken any course in history or economics.



9. AMERICAN GOVERNMENT. First semester: a survey of the development of constitutional government in America, followed by a study of the origin, development, present condition, and methods of operation of the several organs of the federal government; the rise, organization, and methods of political parties. Second semester: the growth of the state constitutions, and the organization and operation of the state governments; local government and municipal administration; and the rights and obligations of citizens. In the treatment of the various topics, the significance of the historical development is constantly emphasized, comparisons with other countries are made, and discussion is turned from time to time to the fundamental problems of systematic political theory. Merriam's American Political Ideas, Beard's American Government and Politics, Munro's Government of American Cities, and collateral readings. Discussions and reports. SECTION 1, *Mon., Wed., Fri., at 9.* 12 F. H. SECTION 2, *Tu., Th., Sat., at 11.* 15 F. H. DR. WILKINSON. (II)

Section 1 of this course is elective for Juniors and Seniors not eligible for Section 2, and for Sophomores who have received permission to take the course to meet the generalization requirement. Section 2 is elective for students majoring in history, and for those who have taken, or are taking, Course 7 or Course 8.

10. COMPARATIVE GOVERNMENT. First semester: a systematic study of the constitutions, of the national, local, and municipal systems of administration, of political parties, and of the functions of government in Great Britain, France, and Germany with special attention to the results of the war. Second semester: a similar survey of the other European countries, of the Latin-American countries, of self-governing dependencies, of Japan, China, and India, with some consideration of colonial administration. The aim of the course is to present the development of constitutional government outside of the United States, and to study the internal problems of the more important countries, with constant attention to American parallels and to the problems of systematic political theory. The course is intended to give a clearer knowledge of the contemporary conditions of other countries, and to develop

broader political views. Lowell's Government of England, Sait's Government and Politics of France, and other books on several countries. Discussions and reports. *Mon., Wed., Fri., at 11.* 15 F. H. DR. WILKINSON. (IV)

Course 10 is elective for Sophomores who have attained a grade of C— in Course 1, and for Juniors and Seniors who have taken any course in history. This course is given in alternate years.

## LATIN.

PROFESSORS HARRINGTON, NICOLSON, AND HEWITT.

Of the following courses in Latin, Course 1 is given every year, the remaining courses usually in alternate years only, the bracketed courses being omitted in 1922-23. Either Course 1 in Latin or Course 1 in Greek is required of all candidates for the degree of B. A. Courses 2-6 are elective for those who have taken Course 1. But Course 6 may by special permission be elected by those who are taking Course 1. Courses 7-14 are intended primarily for those who have taken at least Course 1 and two of Courses 2-5. But Courses 8 and 13 may by special permission of the instructor be elected by those who have taken only Course 1, and students of marked ability in the reading of Latin, who are taking one of Courses 2-5, may be admitted to certain of the other courses at the same time by special permission of the instructor, to whom application should in each case be made. Courses 12 and 15 do not presuppose a knowledge of Latin; Course 12 is elective for Juniors, and Course 15 for Sophomores.

1. SELECTIONS FROM LIVY (*first-half year*). HORACE,—Selections from the Odes and Epodes (*second half-year*). SECTION 1, *Mon., Wed., Fri., at 11*; SECTION 2, *Tu., Th., Sat., at 11.* 31 F. H. PROFESSORS HARRINGTON, NICOLSON, and HEWITT. (X)

[2. CICERO,—Selected letters, to give a more intimate acquaintance with the history of Rome during the last two decades of the republic, and to compare colloquial with formal Latin. *Three times a week (first half-year).* PROFESSOR HARRINGTON.]

[3. ROMAN COMEDY.—Selected plays of Plautus and Terence. *Three times a week (second half-year).* PROFESSOR HEWITT.]

4. HORACE,—Satires and Epistles, to illustrate the social and literary standards of Rome at the beginning of the Empire. *Tu., Th., Sat., at 11 (first half-year)*. 32 F. H. PROFESSOR HARRINGTON. (X)

5. PLINY THE YOUNGER,—Selected letters, to illustrate especially the state of Roman society at the close of the first century after Christ. *Tu., Th., Sat., at 11 (second half-year)*. 32 F. H. PROFESSOR HEWITT. (X)

6. LATIN PROSE COMPOSITION. In this course the elementary principles of Latin style are studied and considerable amounts of English prose (dealing with subjects both ancient and modern) are translated into Latin. *Once a week*. PROFESSOR NICOLSON.

7. RAPID READING. The aim in this course is to read large amounts of comparatively easy Latin, with a view to acquiring facility in the use of the language. The selections for the first half-year are from poetry (Vergil, Plautus, Terence); in the second half-year from prose (Caesar, Suetonius, Gellius). A considerable part of the reading is done outside of class, and tested by written recitations. *Mon., Fri., at 11*. PROFESSOR NICOLSON. (IV)

8. ROMAN LITERATURE. A historical and critical survey of Roman literature from the third century B. C. to the fifth century A. D., given by means of lectures, a text-book dealing with the general subject, illustrative class-room readings in Latin and in English translations, and collateral reading. This course is designed primarily for students who desire a wider general acquaintance with the literature of the Romans and its relation to other literatures, without special emphasis upon its distinctly philological features. *Tu., Th., Sat., at 10*. 32 F. H. PROFESSOR HARRINGTON. (IX)

[9. ROMAN ELEGIAC POETRY. The origin and development of the elegiac form. Selections from Catullus, Tibullus, Propertius, and Ovid. Practice in original research. Seminar methods are employed. *Three times a week*. PROFESSOR HARRINGTON.]

[10. ROMAN SATIRE. From its beginnings through the Golden Age. Selections from Ennius, Lucilius, Varro, Horace, Persius, Juvenal, Petronius, Martial, and Apuleius; the Apocolocyntosis of Seneca; lectures on the earliest forms of the novel. *Twice a week.* PROFESSOR NICOLSON.]

[11. ROMAN PHILOSOPHY. Lucretius (selections); Cicero (selections from the *Academica*, *De Officiis*, *Tusculanae Disputationes*, *De Finibus*, *De Divinatione*, *De Natura Deorum*); Seneca (selected essays and epistles); lectures on the development of Roman philosophy. *Three times a week.* PROFESSOR HARRINGTON.]

[12. ROMAN CIVILIZATION. Lectures and assigned reading on the public and private life of the Romans, with special emphasis upon the influence of Roman civilization on modern life, and with various parallels between the political and social tendencies of Rome and those of the present day. *Three times a week (second half-year).* PROFESSOR HARRINGTON.]

Course 12 is elective for Juniors. Knowledge of Latin is not required.

13. HISTORICAL LATIN GRAMMAR. Lectures on the historical development of Latin grammar, as regards both forms and syntax, with illustrative readings in inscriptions and in early Roman literature. *Mon., Wed., Fri., at 10 (first half-year).* 32 F. H. PROFESSOR HARRINGTON. (III)

14. MEDIAEVAL LATIN LITERATURE. Lectures introductory to the literature written in the universal language of the ecclesiastical and learned European world from the fifth century to the seventeenth century. Illustrative readings from some of the most interesting examples of various types of prose and poetry, including history, satirical poetry, the epic, the lyric, the drama, the epistle, the novel. *Mon., Wed., Fri., at 10 (second half-year).* 32 F. H. PROFESSOR HARRINGTON. (III)

[15. ROMAN ART. Illustrated lectures, with assigned collateral reading, involving the preparation of notebooks, and

occasional written tests. The course is designed to set forth the development and achievements of the Romans in some of the most important fields of art, including architecture, relief (historical, mythical, and ideal), portrait sculpture, painting, ornamentation, mosaic, plate, gems, and cameos. *Once a week.* PROFESSOR HARRINGTON.]

Course 15 is elective for Sophomores. Knowledge of Latin is not required.

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## MATHEMATICS.

PROFESSORS HOWLAND AND CAMP; ASSISTANT PROFESSOR MATHEWS;  
MESSRS. ARNOLD AND BAIN.

1. TRIGONOMETRY. The usual topics of elementary trigonometry, with special emphasis on the use of logarithms and the slide rule. SECTION 1, *Mon., Wed., Fri., at 8*; SECTION 2, *Mon., Wed., Fri., at 9*; SECTION 3, *Mon., Wed., Fri., at 11*; SECTION 4, *Tu., Th., Sat., at 8*; SECTION 5, *Tu., Th., Sat., at 9*; SECTION 6, *Tu., Th., Sat., at 10 (first half-year)*. 25 and 26 O. H. ASSISTANT PROFESSOR MATHEWS, MESSRS. ARNOLD and BAIN. (XIV)

Course 1 is elective for those who have not presented trigonometry for admission, and, on recommendation of the instructor, for those who have. (See note following Course 4.)

2. MATHEMATICAL THEORY OF INVESTMENT. Theory of logarithms, graphs, progressions, interest, capitalization, annuities, valuation of bonds. Sections to be arranged (*second half-year*). 25 and 26 O. H. PROFESSOR CAMP, ASSISTANT PROFESSOR MATHEWS, and MR. ARNOLD. (XIV)

Course 2 is elective for those who have taken Course 1.

3. ANALYTIC GEOMETRY. The usual topics, including polar coördinates, conic sections, and some solid geometry. A half-year course given each half-year. SECTION 1, *Mon., Wed., Fri., at 8*; SECTION 2, *Mon., Wed., Fri., at 9*; SECTION 3, *Tu., Th., Sat., at 8*. 25 and 26 O. H. PROFESSOR CAMP, ASSISTANT PROFESSOR MATHEWS, and MR. ARNOLD. (XIV)

Course 3 is elective for those who have taken Course 1, for those who have presented for admission both trigonometry and advanced algebra, and, with the permission of the instructor, for those who have presented trigonometry only.

4. ANALYTIC GEOMETRY AND ALGEBRA. The course is designed for those who have already had some elementary college mathematics, and who are preparing to take more advanced courses in this department or in the field of exact science. Courses 3 and 4 comprise a single, unified course in elementary college analysis. Sections to be arranged (*second half-year*). 25 and 26 O. H. PROFESSOR CAMP, ASSISTANT PROFESSOR MATHEWS, and MR. ARNOLD. (XIV)

Course 4 is elective for those who have taken Course 3.

Candidates for the degree of Ph. B. who have not presented for admission any advanced mathematics must take two of Courses 1, 2, 3, 4; those who have presented only one-half unit of advanced mathematics must take one of these courses.

Candidates for the degree of B. S. who have not presented for admission trigonometry and advanced algebra are required to take Courses 1 and 3, unless they are advised by the instructor to take Courses 3 and 4 instead; those who have presented both those subjects are required to take Courses 3 and 4.

\*5. SURVEYING. The theory and use of chain, tape, compass, level, and transit; surveying methods, problems, and computations, together with practical field and office work; spherical trigonometry. Lectures, *Tu., Th., at 11*; field work, *Tu., 1-3*. 26 O. H. ASSISTANT PROFESSOR MATHEWS. (X)

Course 5 is elective, with the permission of the instructor, for those who have taken a course in trigonometry.

[6. PROJECTIVE GEOMETRY. An introductory course, treating of the properties of straight lines, polygons, the conic sections, and conicoids, by means of projective relations. *Three times a week (first half-year)*. ASSISTANT PROFESSOR MATHEWS.]

Course 6 is elective for those who have taken Course 3. It is omitted in 1922-23.

7. DIFFERENTIAL AND INTEGRAL CALCULUS. Elementary course. *Mon., Wed., Fri., at 10.* 26 O. H. PROFESSOR CAMP. (III)

Course 7 is elective for those who have taken Course 3.

8. ANALYTIC GEOMETRY. Advanced course, beginning with a review of plane analytic geometry and extending into the subject of solid analytic geometry. *Tu., Th., Sat., at 10 (second half-year).* 26 O. H. ASSISTANT PROFESSOR MATHEWS. (IX)

Course 8 is elective for those who have taken Course 3 or Course 4.

[\*9. THE FUNDAMENTAL CONCEPTS OF MATHEMATICS. In this course the fundamental concepts of elementary algebra and geometry are considered in the light of recent investigations in this field. The course is intended for those who are interested in the logical aspects of mathematics and for those who expect to teach the elementary branches of the subject. *Three times a week (second half-year).*]

Course 9 is elective, with the permission of the instructor, for those who have taken a course in analytic geometry. It is omitted in 1922-23.

[10. HIGHER ALGEBRA. An introduction to some of the important branches of higher algebra: properties of polynomials, systems of linear equations, linear transformations, invariants, quadratic forms, etc. *Three times a week (first half-year).* PROFESSOR HOWLAND.]

Course 10 is elective for those who have taken Courses 3 and 7. It is omitted in 1922-23.

11. PROBABILITY AND PHYSICAL MEASUREMENTS. The elements of probability, the law of errors, measures of precision and rules for computation, cumulative errors, weights, least squares. *Tu., Th., Sat., at 9 (first half-year).* 26 O. H. PROFESSOR CAMP. (VIII)

Course 11 is elective for those who have taken, or are taking, Course 7. It will be omitted in 1923-24.

12. PROBABILITY AND STATISTICS. Frequency distributions, averages and measures of dispersion, Pearson's curves and the method of moments; sampling, the significance of a difference; correlation; finite differences and interpolation. *Tu. Th., Sat., at 9 (second half-year).* 23 O. H. PROFESSOR CAMP. (VIII)

Course 12 is elective for those who have taken Course 11. It will be omitted in 1923-24.

Students interested in economics or social science are advised to take Economics 6 either the year before, or the same year as, they take Mathematics 12.

13. MECHANICS. Statics of rigid bodies and of other systems of particles, including as much of the theory of strings as is necessary to the study of cables hanging freely or supporting a bridge. The motion of particles under constant and under variable forces, including the study of impulsive forces, and of elasticity. An elementary treatment of the motion of a rigid body. *Mon., Wed., Fri., at 3.* 26 O. H. PROFESSOR CAMP.

Course 13 is elective for those who have taken Course 7. It will be omitted in 1923-24.

[14. CALCULUS. Second course, including, in the first half-year, a more extended discussion of some of the subjects introduced in Course 7, and in the second half-year an introduction to the theory of differential equations, with applications to geometry, mechanics, and physics. *Three times a week.* PROFESSOR HOWLAND.]

Course 14 is elective for those who have taken Course 7. It is omitted in 1922-23, but will be given in 1923-24.

[15. CELESTIAL MECHANICS. The scope and content of this course are indicated in Moulton's text-book. *Three times a week.* PROFESSOR CAMP.]

Course 15 is elective for those who have taken Course 13. It is omitted in the years 1922-24.



## PHILOSOPHY.

† PROFESSOR ARMSTRONG; ASSISTANT PROFESSOR GIVEN.

1. LOGIC. Jevons-Hill's Elements of Logic; lectures and recitations, illustrated by numerous examples in logical praxis. An elementary course in the forms of reasoned thinking, both deductive and inductive. SECTIONS 1 and 2, *Mon., Wed., Fri., at 11*; SECTION 3, *Tu., Th., Sat., at 11 (first half-year)*. Same sections (except section 2) second half-year, alternating with the sections in Psychology 1. 28 and 11 F. H. PROFESSOR ARMSTRONG and ASSISTANT PROFESSOR GIVEN. (XVIII)

Course 1 is elective for Sophomores.

2. ANCIENT AND MEDIAEVAL PHILOSOPHY. Zeller's Outlines of Greek Philosophy, with references to other authorities. Falckenberg's History of Modern Philosophy. Lectures, recitations, and discussions on the historical development of philosophy to the beginning of modern times. *Mon., Wed., Fri., at 9 (first half-year)*. 28 F. H. PROFESSOR ARMSTRONG. (II)

Course 2 is elective for Juniors who have taken any one of the following courses: Philosophy 1, Psychology 1, the introductory course in ethics. Juniors who elect it must have received grade C or better in one of these courses.

3. MODERN PHILOSOPHY TO 1840. Rogers's Student's History of Philosophy; lectures, recitations, discussions, and references to other standard authorities. The progress of modern philosophy is traced to the opening of the present age. *Mon., Wed., Fri., at 9 (second half-year)*. 28 F. H. ASSISTANT PROFESSOR GIVEN. (II)

Course 3 is elective, under ordinary circumstances, for those who have taken Course 2.

[4. READINGS IN PHILOSOPHY. Readings in the philosophical classics, ancient and modern, and in collateral authorities. The selections read are made the subject of dis-

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† On leave of absence, second semester.

cussion in the class-room; abstracts and theses may also be required. *Twice a week.* ASSISTANT PROFESSOR GIVEN.]

Course 4 is elective for those who are taking, or who have taken, Courses 2 and 3. It is omitted in 1922-23.

5. PHILOSOPHY OF THE STATE. The fundamental conceptions of political science and of American law. The chief topics considered are: Origin and nature of the state; Greek ideal of the city-state; divine right of kings; social contract; organic theory; liberty and sovereignty; individualism and socialism; law and the modern state; nature and function of law; fundamental legal conceptions; criminal, constitutional, and international law; law and justice; the philosophy of law. Dunning's Political Theories; Stone's Law and its Administration. Lectures and assigned readings, with reports and discussions. *Tu., Th., Sat., at 9 (first half-year).* 24 F. H. ASSISTANT PROFESSOR GIVEN. (VIII)

Course 5 is elective for Juniors who have received grade C or better in Course 1. Students electing the course are advised to elect Courses 2 and 3 as well.

\*6. PHILOSOPHY OF THE NINETEENTH CENTURY. Lectures, readings, and discussions on philosophical thought since the disruption of the Hegelian school. Written summaries and reports are required on the readings assigned. Special attention is given to contemporary English and American philosophy, and to recent types of opinion, as pragmatism, the new realism, and the systems of Bergson and Eucken. *Tu., Th., 2:30-3:30 p. m. (first half-year), counting as three hours.* 24 F. H. PROFESSOR ARMSTRONG. (XII)

Course 6 is elective, with the permission of the instructor, for those who have taken Courses 2 and 3, or their equivalent.

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## PHYSICAL EDUCATION.

PROFESSOR FAUVER.

1. PHYSICAL TRAINING — FRESHMAN COURSE. During the first term, students are required to elect work in football, track, or tennis. In the second term, from Thanks-

giving to Christmas, all are required to take systematic gymnastic work. After Christmas, all who have passed a satisfactory medical examination and certain physical efficiency tests may substitute basket-ball, handball, squash, swimming, etc., for the gymnastic work. During the third term students elect work out of doors as in the first term. *Three times a week, counting as one hour, the hours to be announced.*

Course 1 is required of Freshmen.

2. PHYSICAL TRAINING—SOPHOMORE COURSE. During the fall and spring Sophomores are required to elect work in foot-ball, baseball, track, tennis, or swimming. During the winter they are required to elect work in advanced gymnastics, basket-ball, handball, squash, swimming, boxing, wrestling, or track. *Three times a week, counting as one hour, the hours to be announced.*

Course 2 is required of Sophomores.

3. PHYSICAL TRAINING—JUNIOR COURSE. A continuation of Course 2. *Three times a week, counting as one hour, the hours to be announced.*

Course 3 is required of Juniors. No student will receive credit for this course until he has successfully completed at least two seasons in tennis and one season in handball or squash, and has passed the swimming test.

4. THEORY AND PRACTICE. The aim of the course is to acquaint the members of the class with the general principles underlying physical education, and their application in the practical work of teaching or coaching. The work of the course is divided into two parts: (a) Theory. A partial course in descriptive anatomy, including the study of bones, joints, and muscles, with emphasis upon their relation to gymnastic exercises and bodily posture; the effect of various exercises upon the tissues of the body, etc.; the theory of play underlying the common intercollegiate sports; methods of coaching, etc. (b) Practice. Advanced gymnastics with and without apparatus; boxing; wrestling; instruction in the playing of intercollegiate sports, such as basket-ball, foot ball, track, hand-

ball, swimming, etc. *Mon., Wed., Fri., at 9, counting as two hours a week for the year.* GYMNASIUM. (II)

Course 4 is elective for Juniors who have taken Physics 1, Chemistry 1, Biology 1 and 8, or their equivalents. Those who take the course are strongly urged to take the course in bacteriology. This course is intended especially for those who intend to teach.

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## PHYSICS.

† PROFESSOR CADY; ASSISTANT PROFESSORS POWERS AND VAN DYKE.

1. ELEMENTARY PHYSICS. An introduction to physics for those not offering physics for entrance. Lecture, *Mon., at 8* (34 S. L.), with three additional hours for recitation and quiz, in sections, *counting as four hours.* SECTION 1, *Mon., Wed., Fri., at 10;* SECTION 2, *Tu., Th., Sat., at 11.* 40 S. L. Also a two-hour laboratory period each week, each student being assigned to one of the following sections: *Tu., 1-3* or *Wed., 1-3.* ASSISTANT PROFESSORS POWERS and VAN DYKE. (III)

Course 1 is elective for those who did not receive credit for physics on admission.

2. ELEMENTARY PHYSICS. For those offering physics for entrance. Lecture, *Mon., at 8,* in common with Course 1 (34 S. L.), with two additional hours for recitation and quiz, in sections, *counting as three hours.* SECTION 1, *Wed., Fri., at 8.* 40 S. L. SECTION 2, *Tu., Th., at 11.* 34 S. L. Also a two-hour laboratory period each week, each student being assigned to one of the following sections: *Mon., 1-3,* or *Th., 1-3.* ASSISTANT PROFESSORS POWERS and VAN DYKE. (I)

Course 2 is elective for those who received credit for physics on admission.

3. GENERAL PHYSICS. This course is a continuation of Courses 1 and 2, emphasis being laid on recent discoveries and their bearing on the fundamentals of physical science. It

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† On leave of absence, second semester.

serves also as a preparation for the more advanced courses in the department. *Mon., Wed., Fri., at 11.* 34 S. L. PROFESSOR CADY and ASSISTANT PROFESSOR VAN DYKE. (IV)

Course 3 is elective for those who have taken Course 1 or Course 2.

4. PHYSICAL EXPERIMENTS. The course includes laboratory practice and measurements in all the principal branches of physics, with group discussions at hours to be determined. *Six (counting as two) hours a week. With the permission of the instructor, the course may be elected for nine (counting as three) hours.* S. L. ASSISTANT PROFESSOR VAN DYKE.

Course 4 is elective for those who have taken Course 1 or Course 2. It is very desirable that those electing this course should do so the year following Course 1 or Course 2.

[5. GEOMETRICAL AND PHYSICAL OPTICS. An elementary treatment of geometrical optics and the wave-theory of light, —interference, diffraction, spectrum analysis, double refraction, polarization, etc. Based largely on a text-book, with demonstrations, and with laboratory practice about once a week. *Three times a week.*]

Course 5 is elective for those who have taken Course 3, and also calculus. It is omitted in 1922-23.

6. HEAT AND THERMODYNAMICS. Text-book and lectures, with application to the steam engine and the internal combustion engine; occasional laboratory practice in heat and in engine testing. *Mon., Wed., Fri., at 11.* 40 S. L. ASSISTANT PROFESSOR POWERS. (IV)

Course 6 is elective for those who have taken at least two courses in physics, and who are taking, or have taken, calculus. After the year 1922-23 this course will be elective only for those who have taken Course 3, and calculus.

7. APPLICATIONS OF ELECTRICITY AND MAGNETISM. Text-book and lectures. A descriptive course in electricity and magnetism, with special reference to the elements of telegraphy and telephony, electric lighting, storage batteries, and

X-rays. *Mon., Wed., Fri., at 9.* 40 S. L. PROFESSOR CADY and ASSISTANT PROFESSOR POWERS. (II)

Course 7 is elective for those who have taken Course 1 or Course 2 or the equivalent. After the year 1922-23 this course will be elective only for those who have taken Course 3, and who have taken, or are taking, calculus.

8. ELECTRICAL MACHINERY. Text-book and lectures on the elements of direct and alternating current machinery, with laboratory tests by the class. Use is made of the steam engine and generator at the boiler house. *Tu., Th., Sat., at 10 (first half-year).* 34 S. L. PROFESSOR CADY. (IX)

Course 8 is elective for those who have taken Courses 4 and 7, and who have taken, or are taking, calculus.

[\*9. ADVANCED ELECTRICITY. Text-book and lectures on the elementary mathematical theory of electricity and magnetism. *Three times a week (first half-year).* PROFESSOR CADY.]

Course 9 is elective, with the permission of the instructor, for those who have taken Course 3, and calculus. It is omitted in 1922-23.

[\*10. THE CONSTITUTION OF MATTER. Text-book, lectures, and collateral reading on conduction of electricity through gases, elements of the electron theory, analysis of crystal structure by X-rays, and nature of the atom. *Three times a week (second half-year).* PROFESSOR CADY.]

Course 10 is elective, with the permission of the instructor, for those who have taken Course 3, and calculus. It is omitted in 1922-23.

\*11. PHYSICAL MEASUREMENT. Brief treatment of precision of measurements and graphical methods, with laboratory applications in mechanics, heat, sound, and light. *Five, or seven and one-half, hours a week, counting as two or three hours respectively.* S. L. ASSISTANT PROFESSOR POWERS.

Course 11 is elective, with the permission of the instructor, for those who have taken Course 4, and one or more of Courses 5-10.

12. ELECTRICAL MEASUREMENTS. Laboratory practice in electricity and magnetism, with occasional lectures. *Five (counting as two) hours a week. With the permission of the instructor, the course may be elected for seven and one-half (counting three) hours.* S. L. PROFESSOR CADY and ASSISTANT PROFESSOR VAN DYKE.

Course 12 is elective for those who have taken Course 4, and who have taken, or are taking, Course 7 or Course 8.

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Students planning to specialize in physics are advised to take calculus in the Sophomore year, and to elect as many as practicable of the following courses in other departments: Mathematics 11, 13, and 14; Chemistry 3, 4, 5.

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## PSYCHOLOGY.

† PROFESSOR DODGE; ASSISTANT PROFESSOR HUMPHREY.

1. ELEMENTARY PSYCHOLOGY. Lectures and recitations, based on Pillsbury's Essentials of Psychology, and references to other standard texts. SECTION 1, *Mon., Wed., Fri., at 11*; SECTION 2, *Tu., Th., Sat., at 11 (first half-year)*. Same sections second half-year, alternating with sections in Philosophy 1. 39 F. H. ASSISTANT PROFESSOR HUMPHREY. (XVIII)

Course 1 is elective for Sophomores. It may not be elected alone, but must be elected with Philosophy 1. It is preparatory to all later work in the department, and it should therefore be taken in Sophomore year by all students who plan to elect their major studies in psychology.

[2. PHYSIOLOGICAL AND EXPERIMENTAL PSYCHOLOGY. Lectures and class demonstrations, with collateral reading. The course aims at a dynamic psychology. It deals with the nervous conditions of consciousness, with special reference to mental work, fatigue, and efficiency, the origin and integra-

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† On leave of absence for the year.

tion of knowledge and conduct. Experimental methods of investigation are discussed and illustrated by class demonstrations. *Three times a week.* PROFESSOR DODGE.]

Course 2 is elective for those who have taken Course 1, or who are taking it in their Junior or Senior year. It is omitted in 1922-23.

[3. EMOTIONS AND WILL. Lectures and reports. A systematic general account of the emotions, the will, and human personality. A more detailed account of special phenomena, including anger, fear, the tender emotions, sympathy, the aesthetic emotions, the religious emotions, emotional prejudice, the motor value of ideas, suggestion and hypnotism, compulsive ideas, etc. *Twice a week.* PROFESSOR DODGE.]

Course 3 is elective for those who have taken Course 1. It is omitted in 1922-23.

4. EDUCATIONAL PSYCHOLOGY. Lectures and required readings aiming to give a psychological insight into the problems of education, including the theory and practice of mental tests, with actual testing in schools. In conjunction with Course 1, this course is planned to meet the requirements in educational psychology of those states and cities which demand the professional training of teachers, but it is also intended to serve the needs of those whose interest in the psychological problems of education is non-professional. *Mon., Wed., Fri., at 8.* 14 F. H. ASSISTANT PROFESSOR HUMPHREY. (I)

Course 4 is elective for those who have taken Course 1.

[5. APPLIED PSYCHOLOGY. First semester: Business and industrial applications; psychological principles involved in management, vocational guidance, selection of employees, advertising, and salesmanship. Second semester: Applications of psychology to abnormal cases. *Twice a week.* ASSISTANT PROFESSOR HUMPHREY.]

Course 5 is elective for those who have received grade C— or better in Course 1. The two halves may be elected independently with the permission of the instructor. It is omitted in 1922-23.



[6. SOCIAL PSYCHOLOGY. Effects of the group on the mental processes of the individual in the herd, mob, and organized society; the conditions and products of inter-action between minds, as in language, art, morals, loyalty, and leadership; the hypothesis of super-individual minds. Recitations, reports and lectures. *Twice a week.* PROFESSOR DODGE.]

Course 6 is elective for those who have taken Course 3, and for those who have received grade C— or better in Course 1. It is omitted in 1922-23.

\*7. HISTORY OF PSYCHOLOGY. Lectures, reports, and critical reading of selected psychological classics. First semester: The development of psychological thought from prehistoric beliefs through the Greek to the mediaeval period. Second semester: the discussion is brought down to modern times, and includes an account of the outstanding tendencies of the present day. *Mon., 4-6.* 28 F. H. ASSISTANT PROFESSOR HUMPHREY.

Course 7 is elective, with the permission of the instructor, for those who have taken Course 1.

[\*8. LABORATORY COURSE. Experimental study of special problems. PROFESSOR DODGE.]

Course 8 is elective, with the permission of the instructor, for those who have taken Course 2. It is omitted in 1922-23.

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## PUBLIC SPEAKING.

ASSISTANT PROFESSOR GUNNISON.

1. ELEMENTARY PRINCIPLES. A general course in fundamental training of voice and body for expression. Emphasis on mental action as the source of expression. Practical oratorical use of knowledge gained in other departments. Text-book, technical exercises, recitations, and speeches. SECTION 1, *Tu., at 9*; SECTION 2, *Tu., at 10*; SECTION 3, *Wed., at 9*; SECTION 4, *Wed., at 10*; SECTION 5, *Wed., at 2.* Room B, F. H.

Course 1 is elective for Sophomores.

2. ORAL INTERPRETATION. Oral interpretation of different forms of literature, with technical instruction and drill in voice and action. Development of initiative, creative power, and artistic insight. Text-book, exercises, recitations, and speeches. SECTION 1, *Th.*, at 9; SECTION 2, *Th.*, at 11; SECTION 3, *Th.*, at 1; SECTION 4, *Th.*, at 2. Room B, F. H.

Course 2 is elective for Juniors.

3. PUBLIC ADDRESSES. The analysis of some famous orations. Practice in making original speeches of all kinds. The summoning and controlling in public of all the individual's resources of mind and body. SECTION 1, *Tu.*, at 1; SECTION 2, *Tu.*, at 2. Room B, F. H.

Course 3 is elective for Seniors.

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## ROMANCE LANGUAGES.

PROFESSORS KUHN AND MANN; ASSOCIATE PROFESSORS BUSSOM AND CLARK; MR. SMITH.

### FRENCH.

1. ELEMENTARY FRENCH. An introduction to French grammar and composition. Reading of simple narrative prose. Oral drill is carried on throughout the year and special attention is given to pronunciation. SECTION 1, *Tu.*, *Th.*, *Sat.*, at 8. 12 F. H. SECTION 2, *Mon.*, *Wed.*, *Fri.*, at 9. 39 F. H. SECTION 3, *Tu.*, *Th.*, *Sat.*, at 10. 37 F. H. MR. SMITH. (XIII)

Candidates for the degrees of Ph. B. and B. S. must complete the equivalent of Courses 1 and 2 in French, as well as 1 and 2 in German. Such of these courses as they have not taken and passed before entering college, they must take as soon as practicable after entering.

2. INTERMEDIATE FRENCH. This course has for its main object careful drill in the use of the French language, together with the reading of a large amount of French. Special attention is given to the study of France as a country, its people, and its literature. SECTION 1, *Tu.*, *Th.*, *Sat.*, at 8. 11 F. H.

SECTION 2, *Tu., Th., Sat., at 9.* 37 F. H. SECTION 3, *Tu., Th., Sat., at 10;* SECTION 4, *Mon., Wed., Fri., at 2.* 11 F. H. PROFESSOR MANN, ASSOCIATE PROFESSORS BUSSOM and CLARK, and MR. SMITH. (XIII)

Course 2 is elective for those who have taken Course 1, or who have passed elementary French for admission.

3. FRENCH LANGUAGE. This course is designed primarily to develop fluency in the written and spoken language. Special stress is laid on the requirement of a correct pronunciation. Systematic study of vocabulary. Review of word order and the more difficult points of syntax. Regular exercises in writing French. Collateral reading is made the subject of oral and written reports. Lectures on French life and institutions. In great part the class exercises are conducted in French. SECTION 1, *Mon., Wed., Fri., at 9;* SECTION 2, *Tu., Th., Sat., at 10.* 12 F. H. ASSOCIATE PROFESSOR CLARK. (XIII)

Course 3 is elective for those who have taken Course 2, or who have passed intermediate French for admission.

4. FRENCH LITERATURE. A general course in the literature of modern France. Some of the masterpieces of the great writers are read and discussed, but not translated. Duval's *Histoire de la Littérature Française* is translated and supplemented by informal lectures on the general state of literature in France in the seventeenth, eighteenth, and nineteenth centuries. Twice a week translation from English into French is made. In addition, each member of the class must make, twice during the year, a more extensive study of some one particular writer. *Mon., Wed., Fri., at 8.* 39 F. H. PROFESSOR KUHN. (I)

Course 4 is elective for Sophomores who have taken Course 2 or Course 3.

5. FRENCH CLASSICISM. A study of the principal literary works of seventeenth century classicism, and lectures on the social life of the period. Class-room exercises are conducted in French. *Tu., Th., Sat., at 11.* 36 F. H. ASSOCIATE PROFESSOR BUSSOM. (X)

Course 5 is elective for Sophomores who have taken Course 2 or Course 3.

6. THE EIGHTEENTH CENTURY. The principal works of the most important writers are studied in considerable detail. In class room discussion and lectures attention is given to the relation of these works to the social, economic, political, and scientific developments in the century, as well as to the purely literary phases of the subject. *Mon., Fri., at 10.* 36 F. H. PROFESSOR MANN. (III)

Course 6 is elective for Sophomores who have taken Course 2 or Course 3.

7. THE NINETEENTH CENTURY. Some of the best literary products of the period are read and discussed in class. A wider field is covered by means of collateral reading on which written reports are made. Lectures are given in French on the development of French literature from the beginning of the Romantic school. *Tu., Th., at 9.* 31 F. H. PROFESSOR MANN. (VIII)

Course 7 is elective for Sophomores who have taken Course 2 or Course 3.

8. THE MODERN NOVEL. Reading and discussion of some of the principal works of representative French novelists after 1850. *Tu., 2-4.* 36 F. H. ASSOCIATE PROFESSOR BUSSOM. (XII)

Course 8 is elective for Sophomores who have taken Course 2 or Course 3.

9. OLD FRENCH. The work consists in the translation of Old French texts, and the study of Old French literature, with special reference to its influence on the literatures of the other nations of Western Europe. Lectures on the origin of the French language and collateral reading form part of the work. *Tu., Th., at 10 (first half-year).* 39 F. H. PROFESSOR KUHS. (IX)

Course 9 is elective for those who have taken Course 4.

10. FRENCH SYNTAX AND PHONETICS. This course is especially designed to meet the needs of those who intend

to teach French. It includes the study of grammar and composition, phonetics of French pronunciation, and other appropriate topics. *Tu., Th., at 10 (second half-year)*. 39 F. H. PROFESSOR KUHNS. (IX)

Course 10 is elective for those who have taken Courses 1-4.

II. OLD PROVENÇAL. This course is literary rather than linguistic in its aims. The work consists in the study of texts, lectures on the life and poetry of the troubadours and their influence on early European literature, collateral readings, and a brief consideration of Provençal philology. *Wed., Fri., at 11 (second half-year)*. PROFESSOR MANN. (IV)

Course 11 is elective for those who have taken either Course 4 in French, or Courses 1 and 2 in French and Course 2 in Spanish.

### ITALIAN.

I. ELEMENTARY ITALIAN. Grammar, composition, and reading of Italian prose. In addition to the regular work by the class in translating modern prose, Professor Kuhns translates and interprets to the class the *Inferno* of Dante. As a preparation for this part of the work, the class is required to read Gardner's *Dante* (in Temple Primers). *Mon., Wed., at 10*. 31 F. H. *Fri., at 10*. 39 F. H. PROFESSOR KUHNS and ASSOCIATE PROFESSOR CLARK. (III)

Course 1 is elective for Sophomores who have taken French 1.

2. ADVANCED ITALIAN. In this course the *Purgatorio*, the *Paradiso*, and the *Vita Nuova* of Dante, and the *Rime* of Petrarch are read and translated. *Mon., Wed., at 10*. 39 F. H. PROFESSOR KUHNS. (III)

Course 2 is elective for those who have taken Course 1.

3. DANTE IN ENGLISH. The text-books in this course are Cary's translation of the *Divine Comedy* and Gardner's *Dante* (in the Temple Primers). The instructor interprets the *Divine Comedy* in the light of the history, science, theology, and philosophy of the Middle Ages and shows its influence on modern thought, laying especial emphasis on the moral and

religious teaching of the great Italian poet. *Tu., at 8.* 39  
F. H. PROFESSOR KUHN. (VII)

Course 3 is elective for Sophomores.

#### SPANISH.

1. ELEMENTARY SPANISH. Grammar, and reading of simple Spanish prose. *Mon., Wed., Fri., at 10.* 14 F. H. ASSOCIATE PROFESSOR BUSSOM. (III)

Course 1 is elective for Sophomores who have taken French 1.

2. SPANISH LITERATURE. The work of this course consists in the reading of representative authors, a general survey of the development of Spanish literature, and a study of Spain and the Spanish people. In addition, there is regular drill in composition. Part of the exercises are conducted in Spanish. *Tu., Th., Sat., at 10.* 31 F. H. PROFESSOR MANN. (IX)

Course 2 is elective for those who have taken Course 1.

3. SPANISH COMPOSITION AND CONVERSATION. Special attention is given in this course to conversation, together with personal and commercial correspondence, and a study of the Spanish-American countries. *Wed., Fri., at 11.* 32 F. H. ASSOCIATE PROFESSOR BUSSOM. (IV)

Course 3 is elective for those who have taken Course 1.

## DAILY PROGRAM.



The order of lectures and recitations is set forth in the table given on pages 110 and 111. Arabic numerals following the names of the several studies refer to the numbers of the courses as enumerated in the foregoing statement of courses of instruction. Numerals in parentheses, following the names of certain studies, indicate the sections into which the classes are divided.

# DAILY PROGRAM, 1922-1923.

The figures in parentheses indicate sections.

Hour	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8.	Chemistry 6 English 1 (1, 2) English 4 Ethics 1 Economics 2 German 1 (1) German 2 (1) Greek 1 Greek 2 History 5 Mathematics 1 (1) Mathematics 3 (1) Physics 1, 2 Psychology 4	Biology 4 Biology 5 Chemistry 8 Economics 1 (3) Economics 2 English 1 (4) English 6 (1) French 1 (1) French 2 (1) German 2 (3) Greek 1 Greek 2 History 5 Mathematics 1 (1) Mathematics 3 (1) Physics 1, 2 Psychology 4	Chemistry 6 English 1 (1, 2) English 4 Ethics 1 Economics 2 German 1 (1) German 2 (1) Greek 1 Greek 2 History 5 Mathematics 1 (1) Mathematics 3 (1) Physics 2 (1) Psychology 4	Biology 4 Biology 5 Chemistry 8 Economics 1 (3) Economics 2 English 1 (4) English 6 (1) French 1 (1) French 2 (1) German 2 (3) Greek B History 8 Mathematics 1 (4) Mathematics 3 (3)	Chemistry 6 English 1 (1, 2) English 4 Ethics 1 French 4 German 1 (1) German 2 (1) Greek 1 History 5 Mathematics 1 (1) Mathematics 3 (1) Physics 2 (1) Psychology 4	Economics 1 (3) Economics 2 English 1 (4) English 6 (1) French 1 (1) French 2 (1) German 2 (3) German 6 History 8 Mathematics 1 (4) Mathematics 3 (3)
9.	Biology 6, 7 Chemistry 2 Economics 1 (1, 2) Economics 7 English 5 English 22 French 1 (2) French 3 (1) French 3 (1) Geology 9 History 9 (1) Mathematics 1 (2) Mathematics 3 (2) Philosophy 2, 3 Phys. Education 4 Physics 7	Astronomy 4 Biology 8 Chemistry 1 Economics 4 English 6 (2) English 11 French 2 (2) French 7 German 1 (3) German 5 History 4 Mathematics 1 (5) Mathematics 11, 12 Philosophy 5 Public Speaking 1 (1)	Astronomy 2 Biology 6, 7 Chemistry 2 Economics 1 (1, 2) Economics 7 English 5 English 22 French 1 (2) French 3 (1) French 3 (1) Geology 9 History 9 (1) Mathematics 1 (2) Mathematics 3 (2) Philosophy 2, 3 Phys. Education 4 Physics 7 Public Speaking 1 (3)	Astronomy 4 Biology 8 Chemistry 1 Economics 4 English 6 (2) English 11 French 2 (2) French 7 German 1 (3) German 5 History 4 Mathematics 1 (5) Mathematics 11, 12 Philosophy 5 Public Speaking 2 (1)	Astronomy 2 Chemistry 2 Economics 1 (1, 2) Economics 7 English 5 English 22 French 1 (2) French 3 (1) French 3 (1) Geology 9 History 9 (1) Mathematics 1 (2) Mathematics 3 (2) Philosophy 2, 3 Phys. Education 4 Physics 7	Chemistry 1 Economics 4 English 6 (2) French 2 (2) German 1 (3) German 5 History 4 Mathematics 1 (5) Mathematics 11, 12 Philosophy 5
10.	Astronomy 3 Chemistry 11 English 1 (7, 8) English 15 Ethics 2 Ethics 6 French 1 (3) French 2 (3) Geology 1, 2 German 3 Greek 7	Biology 1 (1) Chemistry 3 Economics 8 English 6 (3) English 21 Ethics 2 Ethics 6 French 1 (3) French 2 (3) French 3 (2) French 9, 10	Astronomy 3 Chemistry 11 English 1 (7, 8) English 15 Ethics 2 Ethics 6 French 1 (3) French 2 (3) French 3 (2) French 9, 10	Biology 1 (1) Chemistry 3 Economics 8 English 6 (3) English 21 Ethics 2 Ethics 6 French 1 (3) French 2 (3) French 3 (2) French 9, 10	Astronomy 3 English 1 (7, 8) English 15 Ethics 2 Ethics 6 French 1 (3) French 2 (3) French 3 (2) French 9, 10	Biology 1 (1) Chemistry 3 Economics 8 English 6 (3) French 1 (3) French 2 (3) French 3 (2) French 9, 10 Latin 11



# DAILY PROGRAM, 1922-1923—(Continued).

Hour	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
10. Con.	Italian 2 Italian 1 Italian 2 Latin 13, 14 Mathematics 7 Physics 1 (1) Spanish 1	Geology 4 History 1 Latin 8 Mathematics 1 (6) Mathematics 8 Physics 8 Public Speaking 1 (2) Spanish 2	Italian 1 Italian 2 Latin 13, 14 Mathematics 7 Physics 1 (1) Public Speaking 1 (4) Spanish 1	Geology 4 History 1 Latin 8 Mathematics 1 (6) Mathematics 8 Physics 8 Spanish 2	Italian 1 Latin 13, 14 Mathematics 7 Physics 1 (1) Spanish 1	Mathematics 1 (6) Mathematics 8 Physics 8 Spanish 2
11.	Astronomy 1 (1) Economics 5 English 1 (3) Geology 5 German 4 German 7 Greek 9 History 10 Latin 1 (1) Latin 7 Mathematics 1 (3) Philosophy 1 (1, 2) Physics 3 Physics 6 Psychology 1 (1)	Biology 1 (2) Chemistry 7 Economics 3 English 7 Ethics 1A French 5 German 1 (4) Greek 9 History 9 (2) Latin 1 (2) Latin 4, 5 Mathematics 5 Philosophy 1 (3) Physics 1 (2) Physics 2 (2) Psychology 1 (2)	Astronomy 1 (1) Economics 5 English 1 (3) French 11 Geology 5 German 4 German 7 Greek 9 History 10 Latin 1 (1) Mathematics 1 (3) Philosophy 1 (1, 2) Physics 3 Physics 6 Psychology 1 (1) Spanish 3	Biology 1 (2) Chemistry 7 Economics 3 English 7 French 5 Geology 5 German 1 (4) Greek 8 History 9 (2) Latin 1 (2) Latin 4, 5 Mathematics 5 Philosophy 1 (3) Physics 1 (2) Physics 2 (2) Psychology 1 (2) Public Speaking 2 (2)	Astronomy 1 (1) Economics 5 English 1 (3) French 11 Geology 5 German 4 German 7 Greek 9 History 10 Latin 1 (1) Latin 7 Mathematics 1 (3) Philosophy 1 (1, 2) Physics 3 Physics 6 Psychology 1 (1) Spanish 3	Biology 1 (2) Chemistry 7 Economics 3 English 7 French 5 German 1 (4) History 9 (2) Latin 1 (2) Latin 4, 5 Philosophy 1 (3) Physics 1 (2) Psychology 1 (2)
1.	Astronomy 1 (2) Biology 11 Chemistry 4 Economics 6 English 1 (3, 6) English 19 German 1 (2) German 2 (2) Greek A	Biology 12 English 20 Mathematics 5 Public Speaking 3 (1)	Astronomy 1 (2) Biology 11 Chemistry 4 Economics 6 English 1 (3, 6) English 19 German 2 (2) German 2 (2) Greek A	Biology 12 English 20 Public Speaking 2 (3)	Astronomy 1 (2) Biology 11 Chemistry 5 Economics 6 English 1 (3, 6) English 19 German 1 (2) German 2 (2) Greek A	
2.	Biology 8 Economics 1 (4) Economics 9 English 13 Mathematics 5 Public Speaking 3 (2)	English 2 French 8 Greek A Mathematics 5 Philosophy 6 Public Speaking 3 (2)	Economics 1 (4) Economics 9 English 13 French 2 (4) Public Speaking 1 (5)	English 2 Philosophy 6 Public Speaking 2 (4)	Economics 1 (4) Economics 9 English 13 French 2 (4)	
3.	Mathematics 13	English 3 French 8 Philosophy 6	English 10 Mathematics 13	English 3 Philosophy 6	English 10 Mathematics 13	

## EXAMINATION GROUPS.

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No student is allowed to take more than one course in any of these groups, with the exception of those which are not given in the same half-year or on the same day. The following courses are not assigned to any group, and may be elected without limitation: Biology 9, 10, 13, 14, 15; Chemistry 12, 13; Economics 10; Greek 3; History 6; Latin 6; Mathematics 13; Physical Education 1, 2, 3; Physics 4, 11, 12; Psychology 7; Public Speaking.

**I.**

Chemistry 6  
English 4  
Ethics 1  
French 4  
Greek 1  
Greek 2  
History 5  
Physics 2  
Psychology 4

**II.**

Astronomy 2  
Biology 6, 7  
Chemistry 2  
Chemistry 10  
Economics 1  
Economics 7  
English 5, 22  
Geology 9  
History 9  
Philosophy 2, 3  
Phys. Education 4  
Physics 7

**III.**

Astronomy 3  
Chemistry 11  
English 15  
Ethics 2  
French 6  
Geology 1, 2  
German 3  
Greek 7  
History 2  
Italian 1  
Italian 2  
Latin 13, 14  
Mathematics 7  
Physics 1  
Spanish 1

**IV.**

Economics 5  
French 11  
Geology 5  
German 4  
German 7  
Greek 9  
History 10  
Latin 7  
Physics 3, 6  
Spanish 3

**V.**

Astronomy 1  
Biology 11  
Chemistry 4, 5  
Economics 6  
English 19  
Greek A

**VI.**

Economics 9  
English 1, 13

**VII.**

Biology 4, 5  
Chemistry 8  
Economics 2  
German 6  
Greek B  
History 8  
Italian 3

**VIII.**

Astronomy 4  
Biology 8  
Chemistry 1

Economics 4  
English 11  
French 7  
German 5  
History 4  
Mathematics 11, 12  
Philosophy 5

IX.

Chemistry 3  
Economics 8  
English 21  
French 9, 10  
Geology 4  
History 1  
Latin 8  
Mathematics 8  
Physics 8  
Spanish 2

X.

Chemistry 7  
Economics 3

English 7  
Ethics 1A  
French 5  
Greek 8  
Latin 1  
Latin 4, 5  
Mathematics 5

XI.

Biology 12  
English 20

XII.

English 2  
French 8  
Philosophy 6

XIII.

French 1  
French 2  
French 3

XIV.

Mathematics  
1, 2, 3, 4

XV.

German 1  
German 2

XVI.

English 6

XVII.

Biology 1  
English 3, 10

XVIII.

Philosophy 1  
Psychology 1

## REQUIREMENTS FOR GRADUATION.

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In order to fulfill the requirements for a bachelor's degree, a student must pass in *sixty-three* hours of work, of which *thirty-eight* must be above grade D+. Course 1 in English (three hours), and three courses in Physical Education (each three hours, counting as one) are required of all students.

### I. GENERALIZATION (FRESHMAN AND SOPHOMORE YEARS).

In order to lay a broad foundation for the more concentrated work of the later years of the course, students are required to take in the first two years, in addition to English 1, *nine* hours each from three groups of studies: (1) languages, (2) philosophy and social sciences, (3) mathematics and natural sciences. The specific courses which may be elected are as follows:

Group 1. Nine hours from courses in Latin, Greek, German, Romance languages.

Group 2. Nine hours from History 1, History 9 (American Government), Economics 1, Philosophy 1 and Psychology 1 (making together a full year course), Ethics 1, and English 6.

Group 3. Nine hours from Mathematics 1-4, Astronomy 1 and 3, Physics 1 or 2, Chemistry 1 or 2, Geology 1 and 2, and Biology 1 and 5.

On presentation of reasons satisfactory to the Administration Committee, a student may postpone three hours, in exceptional cases six hours, of his generalization work until his Junior year.

Certain courses from these three groups are specifically required of candidates for the three bachelor's degrees, as follows:

BACHELOR OF ARTS. Group 1: Latin 1 or Greek 1; German 1 and 2, or French 1 and 2, unless presented for admission. (A student who elects both Latin 1 and Greek 1, or who elects Greek A, Greek B, and Greek 1, is required to take only one year of a modern language.)

**BACHELOR OF PHILOSOPHY.** Group 1: German 1 and 2, and French 1 and 2, unless presented for admission. Group 2: Philosophy 1 and Psychology 1; either History 1 or 9; Economics 1. Group 3: A course in mathematics, three hours for the year, unless an equivalent of advanced mathematics was presented for admission.

**BACHELOR OF SCIENCE.** Group 1: German 1 and 2, and French 1 and 2, unless presented for admission. Group 3: A course in mathematics, three hours for the year; Physics 1 or 2 and Chemistry 1 or 2, unless one or both have been presented for admission. (If a student has presented elementary chemistry for admission, he must take Physics 1 in college; if he has presented elementary physics, he must take Chemistry 1 or 2; if he has presented both, he may have his choice between Physics 2 and Chemistry 1 or 2.)

Required courses must be taken in the first year in which the student is eligible for admission to them, except that a candidate for the B. S. degree who has received credit for admission in both physics and chemistry may postpone to the Sophomore year meeting the requirement of either Physics 2 or Chemistry 1 or 2, in order to elect the introductory course in another department of science.

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## II. CONCENTRATION (JUNIOR AND SENIOR YEARS).

The program for the concentration group may be arranged at the beginning of the Sophomore year, and must be made up not later than the beginning of the Junior year by the student in consultation with a professor of the department in which the major work is to be done, and with the approval of the Dean.

A student must elect a concentration group of *fifteen* hours' work, distributed in not to exceed three departments, and including no introductory course. (In addition to courses numbered A, B, or 1 in each department, Astronomy 3, Biology 5, Chemistry 2, French 2, Geology 2, German 2, History 9, Mathematics 2, 3 and 4, and Physics 2 are considered introductory courses.) A course whose content brings it about equally within the scope of two or more departments may, by agreement of the instructors concerned, be listed under

each department, and considered for the purpose of this regulation as a course belonging to any department under which it is listed.

Of the fifteen hours, at least *nine* must be in the major department, unless the department does not offer sufficient hours in addition to the introductory course, in which case the concentration group may include four departments instead of three.

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#### QUOTA OF STUDIES.

The quota of studies is from fifteen to eighteen hours a week, in addition to the required work in physical education. A Senior may be allowed a minimum quota of twelve hours a week, if he does not need more to graduate. But Seniors are held to pass in all the courses they are taking at the time of the final examinations, even though in excess of the required quota.

Freshmen are strongly advised not to take more than fifteen hours, in addition to physical education, unless they are taking Greek A or B.

## LECTURES, 1921-1922.

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### THE GEORGE SLOCUM BENNETT LECTURESHIP FUND.

A gift of twenty-five thousand dollars from Mrs. Ellen N. Bennett, Mrs. Martha Bennett Jones, R. Nelson Bennett, and Z. Platt Bennett, of Wilkes-Barre, Pa., has been combined with a gift of ten thousand dollars in 1907 from George Slocum Bennett, of the class of 1864, into a fund to be known as the George Slocum Bennett Lectureship Fund, in memory of Mr. Bennett, who died January 2, 1910. The income is to be used "in defraying the expenses of providing for visiting lecturers, preachers, and other speakers supplemental to the college Faculty."

In 1921-22 Professor Charles Cestre, D. Litt., LL. D., of the University of Paris, gave a course of six lectures in February on: The Ideals of France.

Earlier Bennett lectures were as follows:

1918-19 — Professor Andrew Cunningham McLaughlin, LL.D., University of Chicago: Steps in the Development of American Democracy.

1919-20—Professor George McKinnon Wrong, M. A., University of Toronto: The United States and Canada.

1920-21—Dean Shailer Mathews, LL.D., University of Chicago: The Validity of American Ideals.

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### UNIVERSITY ADDRESSES.

The following speakers addressed the College Body during the year 1921-22:

Jackson Stitt Wilson, M. A.: Constructive Christian Democracy.

Assistant Professor Snow: Modern American Poetry.

Doctor Wilkinson: Disarmament.

Carl Sandburg: Readings.

## MIDDLETOWN SCIENTIFIC ASSOCIATION.

The Middletown Scientific Association, founded in 1871, has a membership of about one hundred, taken partly from the college and partly from the town. Regular meetings are held on the second Tuesday of every month during the college year, in the lecture-room of the John Bell Scott Memorial. During 1921-22 the following addresses were given:

Professor Haroutune Mugurditch Dadourian, Ph. D., Trinity College: Theories of Relativity and Gravitation.

Charles Herman Viol, Ph. D., Director of Radium Research Laboratory, Standard Chemical Company: Radioactivity and Radium.

Professor Ellsworth Huntington, Ph. D., Yale University: Experiences Among the Nomads of Central Asia.

Professor Richard Ellwood Dodge, M. A., Connecticut Agricultural College: Climate, Weather, and Agriculture.

Professor Warren King Moorhead, M. A., Phillips Academy, Andover: Indians of New England.

Professor Rice: Fuel.

Professor Leigh Page, Ph. D., Yale University: The Structure of the Atom.

Professor Ernest William Brown, Sc. D., F. R. S., Yale University: The Evolution of the Stars.

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THE CLASSICAL CLUB.

The Classical Club was founded in 1906 by about twenty of the students taking classical courses. Meetings are held once a month during the college year. The following addresses were given before the club in 1921-22:

Professor Hewitt: (1) My Impressions of Rome; (2) Six Weeks in Greece.

Edward Lawrence Christie, B. A.: Agrippina, the Mother of Nero.

Dean Paul Nixon, M. A., Bowdoin College: The Life of a Rhodes Scholar.



## LA SOCIÉTÉ FRANÇAISE.

A French club was founded in 1907 by a number of students taking courses in the department of Romance languages. In the fall of 1909, the club was reorganized under the title of La Société Française, holding fortnightly meetings at the fraternity houses. The following addresses were given before the club in 1921-22:

Associate Professor Bussom: Paris d' aujourd'hui.

Professor Charles Cestre, University of Paris: La Vie Universitaire à Paris.

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## DER DEUTSCHE VEREIN.

A club was organized October 23, 1909, by undergraduates for further practice in the German language and the study of German culture. Those undergraduates are eligible for active membership (the number this year is limited to fifteen) who are taking or have taken courses in German more advanced than Course 2. Members of the Faculty and graduate students may be elected to honorary membership. Meetings are held semi-monthly in rooms in East Hall. Programs, arranged with the advice of the teaching staff in the department, include addresses by instructors in German in other institutions, papers by members, plays, etc. The following addresses were given in 1921-22:

Dr. Baerg: Gegenwärtige Verhältnisse zwischen Frankreich und Deutschland.

Professor Curts: (1) Wirtschaftliche Zustände im neuen deutschen Reiche; (2) Deutscher Humor.

Professor Carl Frederick Schreiber, Ph. D., Yale University: Nach Europa mit einem Viehschiff.

Dr. Shears: Fontane als werdender Dichter.

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## THE RADIO CLUB.

The Radio Club was founded in 1914 by instructors and advanced students in the department of physics. All students taking courses in physics who have completed Course 7 are

eligible for active membership. Meetings are held every two weeks in the Scott Laboratory for the discussion of matters of interest in wireless telegraphy and for practice in the use of apparatus. The following addresses were delivered before the club in 1921-22:

Professor Cady: (1) Alternating Currents; (2) The Atom and the Spectrum.

Assistant Professor Powers: Receiving Circuits.

George William Bain, B. S.: Vacuum Tubes.

Edwin Carl Anderson, B. S.: Amplifiers.

Assistant Professor Van Dyke: Telephone Transmission.

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#### THE WESTGATE CLUB.

The Westgate Club is named in honor of George Lewis Westgate, of the class of 1865, who, as Professor of History and Political Economy from 1880 to 1885, was the first head of the history department in Wesleyan University. The club was organized November 16, 1914, by ten students in the department of history. Those undergraduates are eligible for membership who are taking the seminary course, who are registered for a major in the department, or who are taking work in the department equivalent to a major. Several members of the Faculty have been elected to honorary membership. Meetings are held at convenient intervals, usually at the fraternity houses. The following addresses were delivered before the club in 1921-22:

Professor Hewitt: Aftermath of the War in Italy and Greece.

Professor Slocum: Early Voyages in the Far East and the Whaling Industry.

Professor Wriston: The Department of State.

Rear-Admiral Harry Shepard Knapp: The Military Government of Haiti and the Dominican Republic.

Mr. Gerrish: Beginnings of History Teaching in Great Britain.

William Eugene Mosher, Ph. D., Bureau of Municipal Research, New York, N. Y.: Civil Service Reform.

Professor Edward Frank Humphrey, Ph. D., Trinity College: Democracy.

## THE ATWATER CLUB.

The Atwater Club, named in honor of the late Professor W. O. Atwater, was organized in 1916 by the advanced students in the department of chemistry. Undergraduates who are majoring in chemistry, and who have attained an average of grade B in the department, are eligible to membership. Graduate students and members of the Faculty may be admitted to honorary membership by a three-fourths vote of the active members of the club. Meetings are held once a month, usually at the fraternity houses. The club has taken the lead in the organization of an alumni association of Wesleyan chemists. Besides papers by undergraduates, the following addresses were given in 1921-22:

Professor Hoover: Chemistry and Civilization.

Associate Professor Hill: From Steers to Belts.

Albert James Crichton, Zapon Leather Company, Stamford:  
Artificial Leather and Lacquers.

Merrill James Dorcas, M. A.: Determination of Atomic Weights.

Luther William Bahney, Scoville Manufacturing Company,  
Waterbury: The Chemist and his Employer.

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## THE DELTA ALPHA ARTS CLUB.

The Delta Alpha Arts Club was organized in November, 1916, with a membership limited to twelve. The purpose of the club is to afford an opportunity for acquiring a better knowledge and appreciation of art and music, comparing their tendencies with the contemporary developments in poetry and drama, to make such permanent collections of art prints and sheet music as may be possible, and to cultivate general interest in the fine arts. The following address was given before the club in 1921-22:

Associate Professor Bussom: Impressions of Modern Painting.

### THE FINE ARTS CLUB.

The Fine Arts Club was organized in 1919. Its aim is to stimulate interest in the fine arts among students at Wesleyan, its ultimate goal being the establishment of a Fine Arts Department in the college. Undergraduates to be eligible for membership must show interest in the fine arts, and manifest a willingness to keep up such interest. There are a number of associate members from the Faculty and from the town. The club meets twice a month at the various fraternity houses, and has eight open meetings a year. The following address was given before the club in 1921-22:

Assistant Professor Hench: The Chateaux of the Loire Valley.

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### THE SHORT STORY CLUB.

The Short Story Club was organized in 1914 by about ten men, chiefly of the Sophomore class, who were interested in writing. The membership is at present limited to fifteen, elected from the three upper classes. Occasionally outsiders are invited to address the club, but the programs consist usually of plays, poems, stories, and discussions of live literary topics, contributed by the members. The meetings occur bi-weekly. The following addresses were given before the club in 1921-22:

Assistant Professor Snow: Reading of his Poem, "Cyrus."

Professor Heidel: The Influence of Greek Rites in Literature.

Will David Howe: Some Impressions of Stevenson.

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### THE OXFORD CLUB.

The Oxford Club was organized in 1919 by a group of undergraduates who were preparing for religious work and who felt the need of a common bond. The purpose of the club is to maintain the interest of college men who are preparing for the ministry and to study problems relevant to Christian work. Any student who is definitely planning for work in the ministry, the Y. M. C. A., or some similar field is eligible for

membership. The club meets at the various fraternity houses on the first Tuesday of each month. During 1921-22 the following addresses were given:

Associate Professor Woods: The Place of the Cross in the Christian Life.

Herman David Berlew, '21, Secretary, Wesleyan Y. M. C. A.: The Relation of the Oxford Club to the College Y. M. C. A.

Herbert Duncan Rollason, S. T. B., Middletown: The Validity of the Christian Church and Ministry.

Associate Professor Chanter: The World in which Jesus Lived.

Professor Fleming James, Ph. D., Berkeley Divinity School: Practical Experiences of a Minister.

Professor Dodge: The Psychology of Missions.

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#### THE MEDICAL CLUB.

The Medical Club was organized in 1919. Membership is open to any student intending to study medicine. Meetings are held monthly, at the various fraternity houses. The following addresses were given before the club in 1921-22:

Professor Schneider: Medicine in Aviation.

James Murphy, M. D., Middletown: The X-Ray in Medicine.

Professor Dodge: Semicircular Canals.

Associate Professor Woods: Insects as Carriers of Disease.

R. Leighton Leak, M. D., Middletown: Dementia Praecox.

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#### THE ADAM SMITH CLUB.

The Adam Smith Club was organized in the fall of 1920 for the study and discussion of problems in the field of economics. The active membership consists of twenty students who are doing their major work in that subject. Graduate students and professors in the department are associate members. Monthly meetings are held for the consideration of some problem or question with economic implications. During the year 1921-22 the following addresses were given before the club:

Professor Fisher: The Railroad Strike Situation.

Thomas Macdonough Russell, President, Russell Manufacturing Company, Middletown: The Relation of Management to Labor.

Thomas Lesley Hinckley, Secretary, Middletown Chamber of Commerce: Chambers of Commerce.

Harold Seymour Guy, B. S.: The Morris Plan.

Professor Fred Rogers Fairchild, Ph. D., Yale University: Modern Tax Problems.

George Bliss McCallum, President, McCallum Hosiery Company; Treasurer, Smith College: Experiences with the Leitch Plan.

Professor Lewis Henry Haney, Ph. D., New York University: Business Forecasts and Trade Barometers.

Professor William Fielding Ogburn, Ph. D., Barnard College, Columbia University: Mental Ability and Economic Determinism as Factors in Social Progress.

Professor Wallace Brett Donham, LL. B., Dean, Graduate School of Business Administration, Harvard University: Professional Training for Business.

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#### THE WILLIAM JAMES CLUB.

The William James Club was organized by undergraduates in the spring of 1921. Its purpose is to encourage interest in psychology. Undergraduate membership is limited to twenty men who are taking, or who have completed, three courses in psychology. Several members of the Faculty have been elected to membership. The club meets on the first Friday of each month from November to June. The following addresses were delivered before the club in 1921-22:

Professor Herbert Sidney Langfeld, Ph. D., Director of Harvard University Psychological Laboratory: The Instinct of Pugnacity in Peace and War.

Sidney Merritt Newhall, M. A.: Attention in Audition.

Professor Edwin Garrigues Boring, Ph. D., Clark University: The Changing Status of Introspection.

Assistant Professor Humphrey: Psychoanalysis and Freudian Psychology.

Professor Edward Bradford Titchener, Ph. D., Sc. D., LL. D., Cornell University: The Structure of the Physiological Psychology.

## GENERAL REGULATIONS.†

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### REGISTRATION.

Every student of the Junior, Sophomore, and Freshman classes is required to present to the Dean, not later than the last day of the final examinations, a list of the studies which he proposes to take the next college year. A fee of two dollars shall be paid by each student who fails to present such a list on or before that date. At the same time, members of the Junior class are required to present the list of courses approved by the respective instructors for concentration groups. The incoming class must present a list of studies not later than August 1, if admitted to college prior to that date; if not, within a reasonable time after admission.

Every student is required to register at the beginning of the first semester of each year. A fee of two dollars shall be paid by each student who does not register at the time appointed.

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### QUOTA OF STUDIES.

The requirement for graduation is sixty hours of work in addition to the required courses in physical education. Freshmen, Sophomores, and Juniors must take not less than fifteen nor more than eighteen hours of work per week, and Seniors not less than twelve nor more than eighteen hours per week. Freshmen are strongly advised to take not more than fifteen hours of work per week. No student will be allowed to take less than the minimum nor more than the maximum above specified, without special permission of the Administration Committee. A fee of ten dollars per hour for the year is charged for all courses taken in excess of eighteen hours per week.

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† Copies of the detailed Regulations may be obtained from the Dean.

## GRADES.

The general character of the work of each student in each study is indicated by his assignment to one of six grades, grade A denoting the highest excellence, and grades E and F, failure to pass.

A student will not be graduated unless he attain a grade of C— or higher in thirty-eight of the sixty-three hours required for graduation.

The Dean sends to each student and to his parent or guardian, at the close of each semester, a report of his grades in all studies, together with a statement of class rank, and of conditions or deficiencies.

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## EXAMINATIONS.

Regular examinations are held at the end of the year, and during a specified period at the mid-year. Students on probation, and those who fail of promotion to the next higher class, are required to attend all exercises assigned them. The allowance of absences for others is as follows: in courses of two or more hours a week, one each semester for Freshmen and Sophomores, two for Juniors and Seniors. The allowance for honor students (those who have made an average for the past year of B or higher, and Freshmen who have made an average of B or higher in the first semester) is, for Freshmen and Sophomores, two; Juniors and Seniors, three. In a one-hour course not more than one absence is allowed in any semester. A student who has taken the allowed number of absences in any course, exclusive of those excused by the President or the College Physician or the Committee on Athletics, must thereafter present an excuse for every absence taken in that course, and in case he have one unexcused absence or deficiency in addition to the number allowed, he is excluded from examination and must take a special examination later, paying a fee of five dollars. Unexcused absences from the first or the last exercise of a term in any study, or from classes immediately before or after the Thanksgiving vacation, will result in exclusion from examination in the subjects in question.



Special written examinations are held during the week commencing with the Tuesday before the beginning of the first semester for all who have been excluded or excused from any of the examinations of the previous year. For these examinations application must be made to the Dean before September 1; if application is not made, and the examination is given, a fee of five dollars must be paid.

For the benefit of students who have not been examined in second semester subjects, special written examinations are held during the first few days after the Christmas recess, at times announced by the Dean. For these examinations application must be made before the close of the first term. A fee of five dollars is charged for each examination.

For the benefit of Seniors who have been excluded or excused from any of the examinations during the preceding part of the year, and for members of the lower classes who have been excused from such examinations, special written examinations are held during the first few days after the spring recess, provided that application for such examination is made by the candidate before the close of the second term.

A student who fails to pass a final examination in any study before that study is taken up by the next succeeding class is required, unless specially excused therefrom, to recite with that class, or, in the case of an elective study, to substitute some other elective therefor.

If a student applies for an examination and does not take it, he must pay a fee of five dollars.

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## PROMOTION.

In order to be promoted from the Freshman class to the Sophomore class, a student must be free of entrance conditions, and must have, at the close of the fall special examinations, a record of passing in twelve hours of college work, and he must have attained a grade of C— or higher in not less than seven hours' work. In order to be promoted from the Sophomore to the Junior class, a student must have a record of passing in twenty-nine hours of college work, and he must

have attained a grade of C— or higher in not less than seventeen hours' work. In order to be promoted from the Junior to the Senior class, a student must have a record of passing in forty-six hours of college work, and he must have attained a grade of C— or higher in not less than twenty-seven hours' work.

A student who has failed of promotion at the beginning of the year may recover rank with his class at the beginning of the second semester if he has met the requirements for promotion to his class together with half of the additional requirements for promotion to the next higher class.

A student who fails of promotion with his class must make at least nine hours of grade C— or better in the year following such failure, if he is to be allowed to return to college.

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### ENTRANCE CONDITIONS.

Conditions for admission may be made up at the periods set for special examinations immediately after the Christmas and the Easter holidays (provided application for such examinations be made before the holidays to the Dean), or at the regular examinations set for admission at the beginning of the year following entrance to college. A fee of five dollars is charged for an examination in entrance conditions taken at any other time than those above specified. If any student shall fail to make up his conditions at or before the regular examination for admission at the beginning of the year following his admission to college, he will not be promoted to any higher class. No student is permitted to return to college for a third year who is conditioned in any of the required units for admission to college.

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### LEAVE OF ABSENCE.

A student who desires excuse from college exercises on account of absence from town must apply to the President for permission to be absent, and, unless the circumstances of the case render it impracticable, such permission must be obtained before the student's departure.

## PUBLIC WORSHIP.

Devotional services, which all students not excused for special reasons are required to attend, are held in Memorial Chapel every week-day at 7:50 A. M. and on Sunday at 11 A. M. The service on week-days is brief, consisting of Scripture lesson, hymn, and prayer. The Sunday service is of the same general nature as those in the churches, including a sermon or address.

A College Church was organized in 1916, under the name "The Church of Christ in Wesleyan University." Members of the student body or of the Faculty of Wesleyan University, and members of their families, may become members of this church by signing the following declaration: "Gratefully trusting in the love of God revealed by Jesus Christ, we aim to live as true children of the Heavenly Father. We unite in a Christian fellowship, mutually promising sympathy in Christian life and work."

Membership in this church is expected to continue only during the time of a person's connection with Wesleyan University. It does not involve the discontinuance of membership in any church with which a person may have been previously associated. It is, on the other hand, assumed that in most cases the members of the College Church will be at the same time members of other churches in Middletown or elsewhere.

The President of the University is pastor of the College Church; the clerk is Professor William North Rice. There is a Standing Committee which meets from time to time at the call of the pastor, for conference in regard to the work of the church. This committee consists of the pastor, one representative chosen by the Faculty members of the church, who acts as clerk of the church, and six representatives elected by the student members of the church. The standing committee the present year consists of President Shanklin, Professor Rice; C. J. Johnson, C. L. Smith, L. E. J. Gregory, and R. C. Mansfield, of the Senior class; and G. H. Bickley, Jr., and C. M. Lester, of the Junior class.

Weekly contributions on the duplex-envelope plan are given for the expenses of the college Young Men's Christian

Association, and for the support of West China Union University, in Chengtu, China. The founder and president of that institution is Rev. Joseph Beech, D. D., '99, and several other Wesleyan graduates are members of its Faculty or of its Board of Governors. It is supported by the coöperation of most of the missionary organizations which are at work in West China.

The speakers at the services of 1921-22 were as follows:

David Brewer Eddy, D. D., Secretary, American Board of Commissioners for Foreign Missions, Boston, Mass.

William Sherman Bovard, D. D., Corresponding Secretary, Board of Sunday Schools of the Methodist Episcopal Church, Chicago, Ill.

Irving Bacheller, Litt. D., L. H. D., Riverside.

Bishop Charles Wesley Burns, S. T. D., LL. D., Helena, Mont.

Robert William Rogers, Ph. D., D. D., LL. D., Drew Theological Seminary, Madison, N. J.

Nehemiah Boynton, D. D., New York, N. Y.

James Taylor Dickinson, D. D., Rochester, N. Y.

Robert Watson, D. D., New York, N. Y.

Bishop William Alfred Quayle, Ph. D., D. D., LL. D., St. Louis, Mo.

Bishop Herbert Welch, D. D., LL. D., '87, Seoul, Korea.

Bishop William Franklin Anderson, D. D., LL. D., Cincinnati, O.

William Douglas Mackenzie, D. D., President, Hartford Theological Seminary.

Lynn Harold Hough, D. D., Detroit, Mich.

Oscar Edward Maurer, D. D., New Haven.

Bishop Edwin Holt Hughes, S. T. D., LL. D., Malden, Mass.

Edwin Markham, New York, N. Y.

Dorr Frank Diefendorf, D. D., East Orange, N. J.

Victor Garfield Mills, D. D., Baltimore, Md.

Ralph Anfel Ward, D. D., New York, N. Y.

William Hung, Foo Chow, China.

John Campbell White, LL. D., New York, N. Y.

Jackson Stitt Wilson, M. A., Berkeley, Cal.

Christian Fichthorne Reisner, D. D., New York, N. Y.

Bishop Chauncey Bunce Brewster, D. D., LL. D., Hartford.

Hamlin Garland, New York, N. Y.

- James McGee, B. D., New Haven.  
Albert Cornelius Knudson, Ph. D., D. D., Boston University.  
William Isaac Chamberlain, Ph. D., D. D., Foreign Secretary,  
Board of Foreign Missions, Reformed Church in America.  
Rockwell S. Brank, D. D., Summit, N. J.  
Bishop Frederick DeLand Leete, D. D., LL. D., Atlanta, Ga.  
Archibald Clinton Harte, LL. D., '92, Y. M. C. A. Secretary,  
Jerusalem, Palestine.  
Dean James Albert Beebe, D. D., School of Theology, Boston  
University.  
Dean William Palmer Ladd, D. D., Berkeley Divinity School.
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## YOUNG MEN'S CHRISTIAN ASSOCIATION.

The purpose of the Wesleyan Young Men's Christian Association is to bring men into the Christian life and to develop them into strong and active Christians. Men are enlisted in Bible study; voluntary religious meetings are held weekly; boys' clubs, scout troops, and country Sunday schools are maintained under the leadership of college men; deputation teams visit the churches and preparatory schools to enlist young men for the Christian life; new students are aided in a great many ways; an employment bureau helps many needy students. These activities with others help to keep the men active in Christian work. The following is a list of the cabinet officers for 1922-23: President, L. E. J. Gregory, '23; Vice-President, H. W. Leland, '23; Secretary, C. M. Lester, '24; Bible Study, H. C. Buckingham, '23; Missions, R. C. Mansfield, '23; Meetings, H. W. Leland, '23; Deputations, D. C. Warlow, '23; Handbook, G. C. Ring, '23; New Students, C. M. Lester, '24; Social, E. J. Roberts, '23; Publicity, J. R. Hopcock, '23; Community Service, G. H. Bickley, Jr., '24; Vocational Guidance, C. W. Olson, '24; Editor Handbook, R. L. Morrow, '23.

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## FACULTY ADVISERS FOR FRESHMEN.

A few weeks after the beginning of the college year, each Freshman is assigned to a Faculty adviser. About thirty of the Faculty serve voluntarily in that capacity. The Faculty

adviser is ready at all times to aid with friendly counsel. The adviser is notified by the administrative officers of the college whenever important official action is taken affecting a student assigned to him for advice. A student's choice of studies for his second year must be approved by his adviser; apart from that, all relations between the two are informal, and optional on the part of the student. Hence no responsibility can be attached to a member of the Faculty for failure in character or scholarship on the part of any member of his group.

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## STUDENT ORGANIZATIONS.

No student who has failed of promotion from the class below, no student who is on probation or under censure, no member of the Freshman class who has an entrance condition in a subject required for admission, or more than one unit of condition in elective subjects for admission, no special student, no graduate student, and no Senior who is permitted to count the Senior year in fulfilment of the requirement of residence for the Master's degree, is allowed to take part, as a member of a University athletic team, in any athletic contest, or to appear in any public exhibition of any musical or dramatic organization; or to represent the college in an inter-collegiate debate; or to serve as an editor of an undergraduate paper; or to act as manager, assistant manager, or candidate for assistant manager of any athletic, musical, or dramatic organization; and any student whose college work is unsatisfactory at any time during the college year may be debarred from taking part in such a contest or exhibition. No member of the Freshman class is allowed to represent the University on athletic teams during the first half of the year.

No student is allowed to represent the college on more than two of the following organizations in any college year, either as member, manager, assistant manager, or candidate for assistant manager, nor on any two that are active at the same time of the year, without special permission from the Administration Committee: Football, Basket-ball, Baseball, Track Athletics, Tennis, Glee Club, Dramatics. The Administration

Committee has power to enforce a similar rule for debaters and for editors of the undergraduate paper.

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## THE ATHLETIC COUNCIL.

In 1903 the Trustees authorized the organization of an Athletic Council, composed of three representatives each of the Faculty, the alumni, and the undergraduates. The Council has general supervision over the athletic affairs of the college, subject to certain veto powers retained by the Faculty. It administers eligibility rules, except as regards scholarship, approves schedules, ratifies the election of captains and managers, and controls the finances of the several departments of athletics, through a financial secretary. The officers of the Council for 1922-23 are: William A. Thompson, '97, President; L. E. J. Gregory, '23, Vice-President; Professor Edgar Fauver, Secretary; Professor L. A. Howland, Financial Secretary.

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## PUBLICATIONS ADVISORY BOARD.

The Wesleyan Undergraduate Publications Advisory Board was organized in 1916, to act in an advisory capacity for the undergraduate publications. It assumes no financial responsibility for any of the publications coming under its supervision. It supervises the competition for positions on the editorial staff of the undergraduate publications, and on the basis of these competitions it appoints the business managers and editors. It has power to discharge any official who has proved himself incompetent after fair warning from the Board. It audits the accounts of the managers of the publications. The Board is composed of three representatives each from the Alumni and the Faculty, the president and the secretary-treasurer of the College Body, and the editor-in-chief and the business manager of the undergraduate publications. The officers of the Board for 1922-23 are as follows: President, Professor Curts; Vice-President, Professor Conley; Secretary, A. B. Haley, '07; Financial Secretary, Associate Professor Hill. The members of the Board are: Professor Curts, Professor

Conley, and Associate Professor Hill; A. B. Haley, '07, Secretary of the Alumni Council, F. T. Davis, '11, and A. I. Prince, '15; J. A. Dunn, '23, and F. D. Leete, Jr., '23, representing the *Argus*; W. F. Bolen, '23, and N. S. Lincoln, '23, representing the *Olla Podrida*; E. A. Robison, '23, President, and L. E. J. Gregory, '23, Secretary-Treasurer of the College Body.

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### MUSIC AND DRAMATICS BOARD.

The Music and Dramatics Board was organized in 1921 to supervise the musical and dramatic organizations. Concerts and trips are arranged by the undergraduate manager, subject to the approval of the graduate manager (the secretary of the Alumni Council), who also audits all accounts.

The Board is composed of three members from the Faculty, three from the Alumni, and six from the undergraduates. Of these six, two, the president and the secretary-treasurer of the College Body, represent the undergraduates as a whole; while the leader and the manager of the Glee Club, and the president and the manager of the Paint and Powder Club represent these two organizations, but the representatives of neither club attend meetings called to consider business concerning the other club only.

The officers of the Board for 1922-23 are: President, Professor Hewitt; Vice-President, J. H. Boyd, Jr., '23; Secretary-Treasurer, A. B. Haley, '07; Financial Secretary, Associate Professor Bussom. The members of the Board are: Professor Hewitt, Professor Curts, Associate Professor Bussom; A. B. Haley, '07, Secretary of the Alumni Council, J. C. Beebe, '07, and H. V. Leonard, '12; E. A. Robison, '23, and L. E. J. Gregory, '23, President and Secretary-Treasurer, respectively, of the College Body; J. H. Boyd, '23, Leader, and D. W. Byrne, Jr., '23, Manager, representing the Glee Club; A. C. Lowitz, '23, President, and F. D. Leete, Jr., '23, Manager, representing the Paint and Powder Club.

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### DEBATE COUNCIL.

A Debate Council was organized in the Spring of 1921 as the governing body for debate activities. The members for 1922-23



are Professors Conley and Fisher and Assistant Professor Snow, representing the Faculty; Arthur B. Haley, '07, and Ernest A. Inglis, '08, the Alumni; and the following undergraduates: E. A. Robison, '23, President, and L. E. J. Gregory, '23, Secretary-Treasurer of the College Body, and H. C. Buckingham, '23, and R. L. Morrow, '23, members of the debating team. The secretary of the Council is Arthur B. Haley, '07.

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### MEDICAL SUPERVISION.

As soon as possible after the opening of the college year all Freshmen and all upper-classmen entering Wesleyan for the first time are required to present themselves for physical examination. This examination is given by the college physician, who is a member of the Faculty. The examination consists of the recording of facts relating to the past health of the student which might bear upon his present condition, the taking and recording of a few statistics as to height, weight, lung capacity, etc., and a thorough medical examination of the eyes, nose, throat, lungs, and heart, and the surface of the body. In cases where it seems advisable, a laboratory examination is made of the blood and urine. The information gained from this examination is used as a basis for advice to the student as to his physical needs and the care of his body. In cases where it seems advisable, these examinations are repeated during the year. Every student entering college is required to submit to vaccination and inoculation, unless he presents a certificate from a physician showing that he has been recently inoculated and vaccinated.

The college physician has regular office hours for free consultation with students on matters of health. In case of sickness, treatment is given by the college physician, or the student is referred to the proper specialist. Part of the Foss House is used this year as an infirmary; there is also a well-equipped city hospital where students can be placed under the care of efficient physicians or surgeons. There is an income from a special hospital fund, from which the expenses for care at the hospital of needy students can be met in whole or in part.

All students who, through illness, are unable to attend classes are required to see the college physician (sick call is at 7:50 each morning, Sunday at 10:00 o'clock), or to send for him, and no excuse from classes on account of sickness is granted without a certificate from the college physician.

### EXPENSES.

The annual charges in the Assistant Treasurer's bill are as follows:—

Tuition, - - - - -	\$140 00
Incidentals, use of library and reading-rooms, etc.,	<u>60 00</u>
Total, - - - - -	\$200 00

For the laboratory courses in physics, chemistry, and biology, fees are charged which vary with the nature of the course and with the number of exercises elected per week. The fee in Biology 2 and 3 is three dollars; in Physics 1 and 2 and in Biology 6, 7, 9, 13, 14, and 15, five dollars; in Biology 1 and 4, six dollars; in Biology 10, eight dollars; in Biology 12 and in Chemistry 1, 2, 7, 10, and 11 ten dollars; in Chemistry 4, twelve dollars; in Chemistry 3, 5 and 8, fifteen dollars. The fee for each exercise per week in Chemistry 12 and 13 is two dollars and a half; in practical physics, five dollars. The fees of graduate students in laboratory courses are determined by the instructor in each case. Students electing Biology 12 and the chemistry courses named are required in addition to make a deposit, which is refunded at the close of the course after charges for breakage have been deducted.

A fee of ten dollars per hour for the year is charged for all courses taken in excess of eighteen hours per week.

A diploma fee of ten dollars is charged to each student at graduation.

A fee of five dollars is required of every candidate for the Master's degree before his course of study can be approved by the Committee on Graduate Instruction.

A diploma fee of ten dollars is charged to each graduate student upon promotion to the Master's degree.

The college bills are payable in advance for each semester on or before November tenth and March tenth, payment of the

charge for tuition and incidentals, one hundred dollars, on the bills due November tenth, being required of all students before they are allowed to register. Unless the bill for any semester is paid, or payment thereof guaranteed, on the day appointed, the student is liable to exclusion from recitations.

Students who leave college on account of illness will be granted a pro rata rebate on the charge for tuition and incidentals and on laboratory fees. Those who leave for any other reason will be charged for tuition, incidentals, and laboratory fees to the end of the half of the semester in which they leave. No rebate will be granted on room rent for the semester unless the room is rented to another occupant.

No student can have an honorable dismissal, or certificate of progress in his studies, until his bills are paid.

A student who is absent from college on account of sickness, or for other cause, and who retains his place in his class, must pay the full college bills during his absence.

In order to reduce the expense of a college course, the college maintains a dining hall, where board may be obtained at a moderate rate. There is accommodation for about one hundred boarders. The college is responsible for the general management, the details being in charge of a matron who is responsible to a college officer. Bills are paid into the college treasury, and the college assumes all financial responsibility. The present charge is six dollars and a half a week.

The college fraternities maintain clubs which supply board to their members at various prices.

Other expenses incident to college life vary with the habits and circumstances of the student. They are not, of necessity, so great as to be burdensome to persons in moderate circumstances. Instances have been extremely rare in which students of good ability and health have been compelled to leave college for want of money. A special folder on expenses and methods of self-support will be sent on request to prospective students or their parents.

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## DORMITORY ACCOMMODATIONS.

North College, at the end of College Row, contains one hundred and one rooms that are available for students. The rooms are lighted by electricity, heated by steam, and pro-

vided with single beds, mattresses, chiffoniers, and desks. The prices indicated below include the care of the room. An extra charge is made for heat, and also for electric light, the latter depending upon the electric current furnished. A diagram showing the location of rooms, with dimensions, also a price-list giving number of occupants allowed in each room, will be sent upon application to the Dean.

A new dormitory, providing thirty-four two-room suites, and eighteen three-room suites, has been built at the corner of Cross Street and Mount Vernon Street, on the southwest corner of the campus. The details given above concerning North College apply also to this building.

Furnished rooms are rented also in Observatory Hall at a lower rate than is the case in North College and the New Dormitory.

Rooms will not be assigned to students until they are formally admitted to college, or until they have presented informal statements from principals or others that give reason to believe that they will be admitted. When a room is assigned, a deposit of ten dollars (\$10) must be made by each applicant, or twenty dollars (\$20) in case a single applicant reserves a two-room or a three-room suite. Each student must sign a contract binding him to pay the rent of the room and to occupy the room in person through the entire college year. The deposit will be forfeited in case the student fails to return to college or in case he does not secure admission or does not enter; otherwise the deposit will be credited on his bill for room-rent. A further deposit of three dollars (\$3) is required for each key furnished to occupants.

Students are permitted to take lodgings in town, but the places in which they room or board are in all cases subject to the approval of the Faculty, and to inspection by the college physician. If any of the rooms in the college are thus left vacant, the rent of such rooms may be charged to holders of free scholarships who room in town.

Application for rooms should be made to the Vice-President.

## PRICES OF COLLEGE ROOMS.

All rooms furnished with bed, mattress, desk, and chiffonier.  
Care of rooms included.

## NORTH COLLEGE.

*(Plan will be furnished on request.)*

*For one occupant.*—Nos. 4, 8, 15, 16, 23, 24, 41, 42, 50, 51, 64, 65, 73, 74, 91, 92, 98, 99: rent \$70, heat \$20. Nos. 30, 35, 56, 59, 80, 85: rent \$80, heat \$25. Nos. 3, 7, 9, 29, 36, 46, 69, 79, 86, 95: rent \$85, heat \$25.

*For two occupants.*—Nos. 5-6, 31-32, 33-34, 57-58, 81-82, 83-84, 93-94, 96-97: rent \$140, heat \$30. Nos. 1-2, 13-14, 25-26, 27-28, 37-38, 39-40, 52-53, 54-55, 60-61, 62-63, 75-76, 77-78, 87-88, 89-90, 100-101: rent \$145, heat \$30. Nos. 10-11-12, 17-18-19, 20-21-22, 43-44-45, 47-48-49, 66-67-68, 70-71-72: rent \$165, heat \$36.

## NEW DORMITORY.

*(Plan will be furnished on request.)*

*For two occupants.*—Nos. A, B, 3, 4, 7, 8, 11, 12, 15, 16, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 41, 42, 45, 46, 49, 50, 53, 54: rent \$175, heat \$32.

Nos. C, D, 1, 2, 5, 6, 9, 10, 13, 14, 43, 44, 47, 48, 51, 52, 55, 56: rent \$200, heat \$42.

*For three occupants.*—Nos. C, D, 1, 2, 5, 6, 9, 10, 13, 14, 43, 44, 47, 48, 51, 52, 55, 56: rent \$255, heat \$42.

## OBSERVATORY HALL.

*(Plan will be furnished on request.)*

*For one occupant.*—No. 3: rent \$50, heat \$15. Nos. 1, 6, 7, 9, 10, 18: rent \$55, heat \$15. No. 11: rent \$65, heat \$20. No. 17: rent \$65, heat \$24.

*For two occupants.*—Nos. 15, 16: rent \$100, heat \$20. Nos. 12, 14: rent \$103, heat \$24. Nos. 2, 13, 19, 20: rent \$110, heat \$30.

## MATERIAL EQUIPMENT.

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### BUILDINGS ADDED SINCE 1900.

WILLBUR FISK HALL, opened in the summer of 1904, is occupied by the departments of language, literature, history, economics, and philosophy. It is of Portland brownstone and practically fireproof, 113 by 62 feet in dimensions, three stories in height above a lofty and well-lighted basement story, and cost one hundred and fourteen thousand dollars. It contains ten private studies for professors in charge of departments, fourteen lecture-rooms, seven commodious seminary rooms, and a well-appointed psychological laboratory.

In the planning and construction of the building careful attention was paid to matters of heating, lighting, ventilation, and drainage. It is believed that in dignity of external appearance, interior finish, convenience of arrangement, and adaptation at all points to the uses for which it is designed, it is a model college building.

THE JOHN BELL SCOTT MEMORIAL, the physics laboratory, was completed in 1904 at a cost of one hundred and eighteen thousand dollars. It is the gift of the late Charles Scott and of his son, the late Charles Scott, Jr., B. A., 1886, in memory of John Bell Scott, B. A., 1881, who died of disease contracted while serving as Chaplain of the U. S. Cruiser *St. Paul* during the Spanish-American war.

It is a beautiful and imposing building constructed of Harvard brick and Indiana limestone. Its main part has a frontage of 102 feet and a depth of 51 feet, and in the rear is an extension 50 by 30 feet. The building consists of basement, three stories, and attic, except that the third story is omitted in the extension. The main lecture-room contains nearly two hundred seats, and there is a second lecture-room which is used for small classes. The building contains twenty-two

rooms for experimental work, elementary and advanced, in addition to lecture and apparatus rooms, photographic dark-rooms, storerooms, offices, a library, and a room for draughting and computing. There is also a tower 4 by 6 feet in cross section, with a height of 54 feet in the clear, which can be used for experiments requiring great vertical extension. A wooden mast on the roof supports the wireless aerial, the rooms for radio experiments being in the basement.

The building is equipped with a complete system of wiring for distributing to all points electric currents from the city mains as well as from the storage battery and generators in the basement. For the most part the interior is finished with exposed brick walls, painted a light tint, and with exposed floor timbers and pipe work.

THE NEW NORTH COLLEGE was occupied as a dormitory in January, 1908. It is of Portland brownstone, practically fireproof, 152 by 48½ feet in dimensions, four stories in height above a basement, and cost about \$135,000. The building contains one hundred and one rooms, arranged to satisfy varying demands. There are lavatories in the basement and on the third floor, supplied with tub and shower baths. The floor construction is of reinforced concrete throughout, and the stairs of iron and slate. The building is heated by steam from the central heating plant, and all rooms are lighted by electricity. All partitions in the basement, corridors, and stair-wells are of hollow terracotta brick.

SOUTH COLLEGE, which formerly was used for recitation rooms and studies, has been remodeled to serve as an administration building. The entrance to the building has been raised and a new flight of steps constructed as an approach. The old wooden staircases have been replaced by new ones of iron, with slate treads. The first floor is used as a storeroom by the library. The second and third floors contain private offices for the President and the Dean, a stenographer's room, a storeroom, and a spacious room, finished in quartered oak, used for Faculty meetings and as a general office. On the fourth floor are a number of two-room suites for office use. A chime of bells, manufactured by the firm of Mears and Stainbank, of London, England, and presented to the college

by the class of 1863, has been placed in the tower of this building, which has been remodelled for the purpose.

**SWIMMING POOL.** Through the generosity of a friend of the college, an addition has been built on the east end of the gymnasium in which a swimming pool has been constructed, measuring sixty by thirty feet. The cost of the structure was approximately forty thousand dollars. The pool was opened for use in January, 1914. A more detailed description will be found on page 147.

**A NEW DORMITORY** was opened for use in September, 1916. It is located on the southwest corner of the rear campus. It is a four-story building, of Portland brownstone, about 173 feet long and 40 feet wide, except at the wings, which are nearly 57 feet in width. The cost of the building was approximately \$140,000. It contains thirty-four two-room suites and eighteen suites of three rooms. There are lavatories on each floor of each section.

**A REMODELED CHAPEL.** Through the generosity of Mr. Ralph H. Ensign, of Simsbury, Conn., and his son, Joseph R. Ensign, great improvements were made in the interior of Memorial Chapel in the spring and summer of 1916. By taking out the upper floor, the whole interior of the building has been converted into a spacious hall, with galleries. The seating capacity of the building has thus been increased from about five hundred to approximately seven hundred and fifty. John Gribbel, M. A., of Philadelphia, President of the Board of Trustees, has presented the college with a fine new organ, built by the Austin Organ Company, of Hartford. By the gifts of other friends, elaborate windows in commemoration of five former presidents of the college have been placed in the chapel.

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## LIBRARY AND READING ROOMS.

**THE LIBRARY** in Rich Hall contains about one hundred and thirty-four thousand volumes. The library is open every weekday of the college year from 8 A. M. to 10 P. M. Students are allowed direct access to the shelves.



The increase of the Library is provided for from the income of the following funds, amounting to \$215,015:—

THE ALUMNI LIBRARY FUND, \$39,425, the aggregate of numerous gifts from alumni and friends of the University.

THE HUNT LIBRARY FUND, \$33,882, established in 1898 by Rev. Albert Sanford Hunt (B. A., 1851, D. D., 1873), of Brooklyn, N. Y.

THE WILCOX LIBRARY FUND, \$22,588, established in 1904 by Mrs. Harriet H. Wilcox, of Brooklyn, N. Y.

THE WISE LIBRARY FUND, \$5,378, for the purchase of scientific books, established in 1911 by Rev. Daniel Wise, D. D., of Englewood, N. J.

THE MEAD LIBRARY FUND, \$5,375, established in 1911 by Miss Elizabeth J. Mead, of Stamford.

THE GONA LIBRARY FUND, \$161, established in 1911 by a friend of the department of chemistry for the purchase of books for that department.

THE JOHN BELL SCOTT LIBRARY FUND, \$2,070, established in 1917 by Miss Helen Boyce Scott in memory of her father, who graduated in 1881. The income is to be used for the purchase of books for the departments of philosophy and of ethics and religion.

THE HOYT LIBRARY FUND, \$10,086, established in 1919 by Miss Emily M. Hoyt, of Stamford.

THE CARNEGIE LIBRARY FUND, \$75,000, established in 1920 by the Carnegie Corporation of New York.

THE DUTCHER LIBRARY FUND, \$400, established in 1921 in memory of Merritt T. Dutcher, M.D., by his wife and children. The income of the fund is to be used for the purchase of books on medical subjects.

THE BURROWS LIBRARY FUND, \$20,000, established in 1921 by William H. Burrows, of Middletown, a Trustee of Wesleyan University from 1909 to 1917.

THE JAMES LIBRARY FUND, \$650, established in 1921 by William J. James (B.A., 1883), of Middletown. The income of the fund is to be used for the purchase of books dealing with the history and art of printing and book-making.

There is a reading-room in East Hall provided with daily and weekly newspapers. Another reading-room, on the second floor of Rich Hall, contains the current issues of the important magazines and reviews.

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### THE VAN VLECK OBSERVATORY.

The Van Vleck Observatory was dedicated June 16, 1916. This building is the gift of the late Joseph Van Vleck, brother of the late Professor John Monroe Van Vleck, and is located on the crest of the hill about three hundred yards due west of the Chapel. It is constructed of Portland brownstone.

The main part of the building is 40 by 80 feet, one-story high, and contains a class-room, library, time-room, computing-room, director's office, and an assistant's room. In a wing extending to the west is a transit-room, with piers for two three-inch transits. At the end of a second wing, extending to the east, is the tower and dome for the chief instrument, a telescope of 20 inches aperture, and 28 feet focal length. The glass for the lens was made in Jena, Germany; it was figured, ground, and polished by the Alvan Clark Company, of Cambridge, Mass.

For convenience in observing, the floor of the tower is an elevator, 33 feet in diameter, with a vertical range of 10 feet.

The basement contains two rooms for photographic work, a spectroscopic laboratory, and a workshop.

In addition to the telescope and two transits mentioned above, the observatory has a good equipment of apparatus for instruction and research. This includes two portable refractors, two spectroscopes, filar micrometer, photometer, altazimuth instrument, reflecting circle, two sextants, a 4-inch photographic doublet, two clocks, two chronometers, chronograph, comparator for photographic plates, and a computing machine.

## LABORATORIES AND APPARATUS.

THE LABORATORY OF EXPERIMENTAL PSYCHOLOGY occupies four rooms in Fisk Hall: a general laboratory and lecture-room, a smaller research laboratory, a construction and apparatus room, and a physiological dark-room. These rooms were designed expressly for their present use and contain electrical and other fittings of the most approved sort. The equipment of the laboratory is being increased to meet the demands of research as well as for more adequate class-room demonstration and elementary laboratory exercises. Among the more recent acquisitions may be mentioned: a set of preparations of the brain and spinal cord, a pendulum-tachistoscope, a projection apparatus designed for experimental purposes as well as for the projection of lantern slides, a mirror exposure apparatus of new design for studies in the psychology of reading, apparatus for the study of eye-movements and attention, a microscope sphygmograph and registering device, and an Einthoven string-galvanometer.

THE PHYSICS LABORATORY occupies the John Bell Scott Memorial, for a description of which see page 140. It is well equipped with apparatus for laboratory courses and for demonstration. In electricity, facilities are afforded for a wide range of methods of testing, with both alternating and direct current. Opportunity is also afforded for graduate instruction and research, especially in alternating currents, discharge through gases, and high-frequency oscillations. The equipment includes Geryk and Gaede rotary air-pumps, a Gaertner interferometer, chronograph and standard clock, stationary internal-combustion engine with Prony brake, Duddell oscillograph, Leeds and Northrup potentiometer, Compton electrometer, Rosa curve-tracer, and a large amount of apparatus for radio telegraphy.

In addition to the electrical equipment of the Scott Laboratory, the boiler house contains a 25-horse-power Ball engine, and a 17½-kilowatt General Electric direct current generator, with accessory apparatus.

THE CRAWFORD MEMORIAL FUND. A fund of five thousand dollars has been given by Hanford Crawford, of St. Louis, in memory of the Reverend Morris D'Camp Crawford, who was

a trustee of Wesleyan University from 1871 to 1896. The proceeds of this fund are devoted to the purchase of apparatus for the department of physics, or to the promotion of research in the same department.

THE CHEMICAL LABORATORY finds accommodation on the lower floors of Judd Hall. Two lecture and recitation rooms provide facilities for class instruction. The larger laboratory courses are accommodated in rooms adjoining the lecture rooms. The analytical laboratory contains over fifty desks, and in another room there are temporary desks for one hundred and fifty students in general and organic chemistry. Owing to the present crowded condition of the laboratories, temporary provision has been made in the John Bell Scott Memorial and in the room adjoining the machine shop for laboratory work in physical chemistry and quantitative analysis.

The very valuable library of chemical periodicals begun by the late Professor Atwater is housed in the chemical laboratory and is accessible to instructors and students alike.

Announcement was made at the opening of college, September, 1916, of a gift by Mrs. Gardiner Hall, Jr., of South Wilington, Conn., in memory of her husband, for the construction of a new chemical laboratory.

THE BIOLOGICAL LABORATORY occupies five rooms in Judd Hall and three rooms in the John Bell Scott Memorial. Four rooms in Judd Hall are used for general laboratory purposes and the rooms in Scott Memorial for physiology and bacteriology. The equipment provides an abundance of material for anatomical, histological, and embryological study, and apparatus necessary for elementary biological, physiological, and bacteriological work. The general laboratory room contains a type collection illustrating all orders of animals, and students are allowed to use the large museum collection for comparison and direct study.

THE AMOS JAY GIVENS BIOLOGICAL FUND. A fund of twenty-five thousand dollars has been given by Amos Jay Givens, M. D., LL. D., of Stamford, the income of which is to be used for the equipment and maintenance of the department of biology, or for the promotion of research in that department.

THE MACHINE SHOP occupies the west room in the boiler house, and is in charge of a skilled mechanic. It is equipped with first-class power lathes, planer, shaper, etc., and affords ample facilities for the construction of new apparatus, for purposes both of demonstration and of investigation; for the repair of apparatus already in use; and, to a limited extent, for the instruction of advanced students who have exceptional mechanical aptitude.

MATHEMATICAL MODELS. This collection, the gift of Ebenezer Hill (B. A., 1870), of South Norwalk, comprises a complete set of the models made by Brill of Darmstadt, for illustration in the higher branches of mathematics, as well as in mathematical physics and crystallography. The models are arranged in a series of cases in the mathematical reading-room in Observatory Hall.

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## GYMNASIUM AND ATHLETIC FIELD.

THE FAYERWEATHER GYMNASIUM is located on the north side of the rear campus, parallel with Wyllys Street. Its dimensions are 55 by 205 feet.

The basement contains a large room for shower baths, a room adjacent for rubbing and drying, a large locker room, and toilet rooms. On the first floor is the main hall of the gymnasium, which is well equipped and affords ample room for every variety of gymnastic exercise. The director's office and a dressing room for members of the Faculty are also on the first floor. Attached to the director's office is a private room for the college physician, which is used for consultation and examination. Special attention has been paid to ventilation, drainage, and lighting, and the building is believed to contain the best features of a modern gymnasium.

An addition to the main building, completed in January, 1914, contains a swimming pool measuring sixty by thirty feet. The pool is lined with white ceramic tiles, with lanes in the bottom marked in blue, and is equipped with a life-rail and gutter, with markings showing depth and distances. The walls are of water-proof concrete painted brown, and the walk around the pool is of white tiles. The pool is nine

and a half feet deep at the east end, and four feet deep at the west end. There is a gallery at the west end, entered from the main floor of the gymnasium. The pool is lighted by large windows at the east end, and by windows on the sides. Artificial lighting is furnished by a system of reflected light. Provision is made for a system of refiltering, and the pool is in every way sanitary. Above the pool are two excellent hand-ball and squash courts. A 12-lap running track, with a 45-yard "straightaway," encircles the whole of the second floor.

The mess hall, built in 1918 for use by the Student Army Training Corps, has been added to the equipment for physical training, and is used for hand-ball and other indoor games.

Exercise on the athletic field and in the gymnasium is required of the Freshman, Sophomore, and Junior classes three hours a week for the year. Elective work in the gymnasium is offered to the Junior and Senior classes. A well developed system of intramural sports affords opportunities for all to engage in competitive games.

THE ANDRUS FIELD lies in the rear of the main line of college buildings, south of the gymnasium, and between the two large college dormitories. The entire field, covering seven acres, is surrounded by a wire fence, and is used for both intercollegiate and intramural athletic games and practice. Three thousand portable bleachers have recently been added to the equipment, to be used for the accommodation of spectators at the intercollegiate contests. The field contains a quarter-mile track with a hundred-yard straightaway, and provides sufficient room for two baseball fields in the spring and two football fields in the fall. Its proximity to the college enables the whole student body to keep in close touch with the progress of training in all branches of athletics, and affords the teams opportunity to use the dressing rooms and baths reserved for them in the gymnasium.

In 1920 an additional baseball field was constructed on the Foss property, adjacent to Andrus Field. This provides a practice field for the Freshman team, and for intramural games.

Five tennis courts at the east end of the gymnasium and eight additional courts on the hill adjacent to Andrus Field are for the free use of students, and are also used for instruction in tennis.

## MUSEUM.

THE MUSEUM OF NATURAL HISTORY AND ETHNOGRAPHY occupies the upper stories of the Orange Judd Hall of Natural Science. The collections are arranged with special reference to their educational use, and are freely accessible to students.

The nucleus of the departments of zoölogy and botany was formed by the Shurtleff collection, collected by Simeon Shurtleff, M. D., and purchased by the University in 1868.

The zoölogical department received in the years between 1872 and 1881 most important accessions in liberal donations and exchanges from the Smithsonian Institution, and in collections made by the curators on the coast of New England, through the facilities afforded by the United States Commissioner of Fish and Fisheries. Expeditions to Bermuda, Florida, and Newfoundland also added large and valuable collections. Valuable collections of insects were presented by Richard L. de Zeng in 1896, and by Mrs. E. K. Hubbard in 1898. In 1908 a fine collection of birds' nests, and a collection of reptiles and amphibians, from Portland and Cromwell, was received from Mr. Charles H. Neff. At the death of Mr. Neff in 1911, his entire collection came as a legacy to the museum. The collection is rich in skins, mounted specimens, and eggs of the birds of Portland and vicinity. The zoölogical department includes about thirteen thousand species. The vertebrata of North America, the marine invertebrata of New England, and the mollusca in general, are especially well represented.

The herbarium comprises about five thousand species, representing quite fully the flora of New England, and including also many specimens from foreign localities. The large collection of Joseph Barratt, M. D., came into the possession of the university in 1879. The herbarium of Rev. Merrill Hitchcock, B. A., including about 700 specimens, of which about 200 are from Connecticut, was presented to the museum in 1908.

The mineralogical department includes about three hundred and fifty species, and a much larger number of varieties. The Franckfort collection, purchased in 1858, contains many choice specimens, mostly from European localities. The minerals of

the interesting region in which Middletown is situated are well represented by collections commenced by the labors of Professor Johnston (1835-1868), and largely increased in later years. Important accessions were obtained in 1899 by collecting trips to Nova Scotia and to Herkimer County, N. Y. The Sheldon collection, purchased in 1904, includes many beautiful and valuable specimens.

The geological department includes collections in lithology, physical geology, and paleontology. The lithological collection received in 1897 a valuable accession in the gift of a set of the educational series of rock specimens described in Bulletin No. 150 of the U. S. Geological Survey, presented by the Survey. A suite of Ward's casts of fossils, presented by Orange Judd, M. A., in 1871, serves an excellent purpose in the work of instruction, affording the student a representation of many remarkable forms of ancient life, actual specimens of which are rare or unique. A valuable collection of Tertiary fossils was received in 1887 from the Smithsonian Institution, in exchange for duplicate shells from the Shurtleff collection. The collections in paleontology have been very largely increased since 1893 by the work of the late curator, S. Ward Loper, M. A., in the vicinity of Middletown, at Valcour Island, Lake Champlain, in western Maryland, in the vicinity of Chattanooga, Tenn., Cañon City and Florissant, Col., and Fossil, Wyo., and in Nova Scotia. Especially important among these accessions are the collections of fossil fishes and plants from the Triassic shales of the Connecticut valley, and of Tertiary fishes and plants from Fossil, Wyo., and Tertiary plants and insects from Florissant, Col. A choice collection of European fossils, including a number of beautiful specimens from the lithographic limestone of Solenhofen, was received in 1895 from the University Museum of Munich, in exchange for American fossils. The private collection of Mr. Loper, purchased for the museum in 1900, is very rich in fossil fishes and plants from the fossiliferous shales of the vicinity of Middletown.

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of objects from burial mounds near Chattanooga, Tenn., was deposited in the museum in 1896 by Hon. A. R. Crittenden, and has since then been purchased. The private collection of Mr. Loper, purchased in 1903, contains many interesting Indian relics from the vicinity of Middletown. The collection of local Indian relics has been greatly increased by the legacy of Charles H. Neff in 1911. The department also possesses a valuable collection of pottery from the guano beds of Peru, presented by Joseph S. Spinney; a collection of Mexican antiquities, presented by Hon. Arnold Shanklin, former United States Consul-General in Mexico; an interesting collection of weapons and other objects from the South Sea Islands; a collection of weapons and implements from equatorial West Africa, presented by Frederick B. Northam; a collection of relics from Assuan, Egypt, presented by Clarence S. Wadsworth, B. A.; and valuable collections of objects illustrative of Chinese life and customs, presented by Rev. Marcus L. Taft, D. D., Mrs. W. W. Wilcox, Rev. John Gowdy, D. D., and Rev. Joseph Beech, D. D. The collection of coins numbers about 4,500, exclusive of duplicates. Included in this number is a collection of about 1,800 Chinese coins, some of which are ancient and very rare, presented by Rev. Marcus L. Taft, D. D. Other valuable collections of Chinese coins have been received from Rev. John Gowdy, D. D., and Rev. Joseph Beech, D. D. A valuable collection of Greek and Roman coins and facsimiles of such coins, historical medals, and copies of such medals, was presented to the museum in 1906 by Stephen H. Olin, LL. D. Additional specimens subsequently presented by Dr. Olin make the number of specimens in this collection more than 600. The greater part of the ethnographical collection is at present arranged in the lower hall of the museum, with the collections in mineralogy and geology. The coins (with the exception of the Olin collection and certain other special collections placed on exhibition in the museum) are kept in a case in the classical seminary room in Fisk Hall, where they can be seen by students and others on special application.

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## FELLOWSHIPS AND SCHOLARSHIPS.

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### THE SQUIRE FELLOWSHIP.

This fellowship was founded in 1873, as the Squire Scholarship, by Hon. Watson Carvosso Squire (B. A., 1859, LL. D., 1911), of Seattle, Wash. In 1914 the principal of the fund was increased and the fellowship was established. It is open to Bachelors of Arts of Wesleyan University or of other colleges. The tenure of the fellowship is one academic year, with the possibility of reappointment for a second year. The income is not less than \$400 nor more than \$500. The Fellow shall devote himself to advanced study under the direction of the instructors in the department of Greek.

### THE RICH FELLOWSHIP

This fellowship was founded by Mr. William Thayer Rich, of Boston, Mass., a trustee of the University. The income is not less than \$450 nor more than \$550. It is awarded for graduate study in the department of economics and social science.

### TUITION SCHOLARSHIPS.

Each year the Trustees place at the disposal of the President, for the benefit of needy and worthy students, a sum of money which is used to pay, in whole or in part, the charge for tuition.

Tuition scholarships are intended to assist successful students who need financial aid to carry forward their college studies, and to assist well-prepared applicants for admission who give promise of creditable work, subject to suitable limitations.

A limited number of applicants may be assured, before entering college, of scholarship awards for the first semester. Such provisional scholarships shall be a maximum of \$70 for the semester. Application for these scholarships must be made on blanks supplied for the purpose, and must set forth satisfactory evidence of the student's financial needs which

must be vouched for by his parent or guardian, and must include references to at least two other competent persons, preferably his preparatory school principal and his minister. Applications will receive favorable consideration only upon receipt of satisfactory letters from the persons named as references, with regard to the character, scholarship, and financial needs of the applicant.

Applications from prospective students for scholarship aid should be filed at as early a date as possible. Favorable action cannot be assured unless the application is received prior to September 1.

Scholarships awarded for the first semester of the Freshman year will be continued for the second semester if the student has maintained a satisfactory standing in the work of the first semester.

Those desiring scholarship aid for the Sophomore, Junior, or Senior year must file, not later than June 30, similar applications containing complete and reasonably detailed statements of income and expenses for the preceding year. Scholarships for members of the three upper classes will be awarded in three groups according to the scholarship standing of the student in the portion of the college course already completed, if his needs warrant so much aid; to the first class, those with excellent grades, a full tuition scholarship of \$140 a year; to the second class, those with good grades, \$120; to the third class, those with average grades, \$100. Notice of the awards will be mailed to the applicants not later than August 1.

The amount of scholarships awarded will be credited on the semester bills. Scholarships regularly lapse at the close of each year. Scholarships will not be awarded to students failing of promotion, on probation, under censure, or not candidates for a degree.

Any one of the following reasons may cause the rejection of an application or the forfeiture of a scholarship already awarded:

- (a) evidence satisfactory to the committee that the scholarship is not needed;
- (b) expensive habits—failure to exercise proper economy in respect to room, board, or general living expenses will be regarded unfavorably by the committee;

- (c) serious neglect of studies;
- (d) breach of college discipline, indulgence in intoxicating liquors, or other gross misconduct.

If the cause of forfeiture has been removed, a scholarship may be restored after the lapse of a semester.

The committee on scholarships and loans has power, in exceptional cases, to waive the above regulations and to remit in full or in part the tuition or other charges.

All correspondence relating to scholarships must be addressed to the President of the University.

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Perpetual scholarships established by Jacob Atkins, John M. Howe, Ralph Mead, Charles C. North, Aaron Sanford, Jr., James Strong, Charles Woodbury, and the 27th Street Methodist Episcopal Church of New York City have been transferred to the University. These scholarships, which are at the disposal of the President, exempt the holders from the charge for tuition subject to the regulations set forth above.

In addition to these free tuition scholarships are the following:—

#### THE LOVELAND SCHOLARSHIP.

This scholarship was founded in 1874 by Miss Louisa Loveland. The income of \$2,879 is available, at the discretion of the Faculty, for the use of a deserving student who needs pecuniary assistance. For this scholarship only such students as intend to devote themselves to the work of the Christian ministry in the Methodist Episcopal Church can be candidates.

#### THE JOHN EVANS SCHOLARSHIP.

This scholarship was founded in 1883 by Mrs. Ann Evans in memory of her husband. The income of \$2,402 is given annually to that member of the Senior or Junior class who is named by the Board of Trustees, or by some authority to whom they may delegate the nomination. For this scholarship only such students as are preparing themselves for the ministry, and are already licentiates in the Methodist Episcopal Church, can be candidates.

## THE KATHRIN MILLER CADY SCHOLARSHIP.

This scholarship was founded in 1916 by Mrs. Caroline L. Miller of Middletown in memory of her daughter. The income of \$2,886 is given annually to a graduate or undergraduate student for advanced study in the department of physics.

## THE WILLIAM DAY LEONARD SCHOLARSHIP.

This scholarship was founded in 1917 by friends of the late William Day Leonard, B. A., 1878. The income of \$2,713 is awarded annually by the Faculty to one of three undergraduates nominated by the College Senate. The undergraduates are from the Junior, Sophomore, or Freshman classes. Mr. Leonard's characterization of a man is as follows:

"Accomplished, without ostentation; grave, without austerity; gentle, without weakness; cheerful, without frivolity; conciliatory, but unbending; rigid in performance, yet indulgent toward all faults but his own."

Upon the basis of such characterization, the scholarship is awarded to the student who gives greatest promise of success through character, scholarship, physical endowments, personal popularity, and qualities of leadership.

The holder of the scholarship in 1922-23 is Joseph Hamilton Boyd, Jr., Class of 1923, of Upper Montclair, N. J.

## SCHOLARSHIP FUNDS.

The income of the following scholarship funds is available, at the discretion of the President, to pay, in whole or in part, the tuition of deserving students who need pecuniary aid:

**The Frank S. Jones Scholarship Fund, \$1,166,** founded in 1892 by Frank S. Jones, of Brooklyn, N. Y.

**The Billings Scholarship Fund, \$3,984,** founded in 1902 by William Perry Billings, of Kingston, Pa.

**The Starks Scholarship Fund, \$1,172,** founded in 1902 by Mrs. Elizabeth B. Starks, of Troy, N. Y.

**The Shonk Scholarship Fund, \$27,245,** founded in 1903 by John J. Shonk and Mrs. George W. Shonk, of Plymouth, Pa., in memory of Hon. George W. Shonk (B. A., 1873).

- The Philip Reynolds Scholarship Fund, \$1,171**, founded in 1903 by Philip Reynolds, of Brockton, Mass.
- The Shepherd Scholarship Fund, \$3,344**, founded in 1904 by James G. Shepherd, of Scranton, Pa.
- The Connell Scholarship Fund, \$3,455**, founded in 1905 by Hon. William Connell, of Scranton, Pa.
- The Swift Scholarship Fund, \$35,233**, founded in 1905 by Mrs. Annie M. Swift, of Chicago, Ill., in memory of her husband, Gustavus F. Swift.
- The George G. Reynolds Scholarship Fund, \$2,814**, founded in 1906 by Hon. George G. Reynolds (B. A., 1841), of Brooklyn, N. Y.
- The Cyrus D. Jones Scholarship Fund, \$5,536**, founded in 1906 by Cyrus D. Jones, of Scranton, Pa.
- The Harriet Townsend Reynolds Scholarship Fund, \$2,812**, founded in 1907 by Hon. George G. Reynolds (B. A., 1841), of Brooklyn, N. Y., in memory of his wife.
- The Frank Reynolds Scholarship Fund, \$2,812**, founded in 1907 by Hon. George G. Reynolds (B. A., 1841), of Brooklyn, N. Y., in memory of his son, who graduated in 1868.
- The Abigail Pennoyer Reynolds Scholarship Fund, \$2,779**, founded in 1908 by Hon. George G. Reynolds (B. A., 1841), of Brooklyn, N. Y., in memory of his mother.
- The Samuel D. Hubbard Scholarship Fund, \$11,103**, founded in 1910 by Miss Jennie M. Clarke, of Middletown, in memory of her uncle, Hon. Samuel Dickinson Hubbard, for many years a trustee of Wesleyan University.
- The Montgomery Scholarship Fund, \$1,100**, founded in 1910 by the Rev. John E. Adams, D. D., of Patchogue, N. Y., trustee of the Jane P. Fitch Benevolent Fund, in memory of Rev. James Montgomery.
- The Mead Scholarship Fund, \$2,475**, founded in 1911 by Miss Elizabeth J. Mead, of Stamford, in memory of her father, Rev. Nathaniel Mead.

- The Lewis Gunn Scholarship Fund, \$2,709**, founded in 1911 by Mrs. Mary C. Holman, of Hopkinton, Mass., and Mrs. Lillie G. Smith, of Washington, Conn., in memory of their father, Rev. Lewis Gunn.
- The Jane D. Boardman Scholarship Fund, \$10,729**, founded in 1911 in memory of Mrs. Jane D. Boardman, of Middletown, by the executors of her estate, Hon. Frank B. Weeks, of Middletown, and Dr. Joseph H. Townsend, of New Haven.
- The Robert Alfred Davison Scholarship Fund, \$5,550**, founded in 1912 by George Willets Davison (B. A., 1892), of New York, N. Y., and his wife, Harriet Baldwin Davison, in memory of their son.
- The Walter Hubbard Scholarship Fund, \$42,833**, founded in 1912 by Walter Hubbard, of Meriden.
- The Butler Scholarship Fund, \$5,000**, founded in 1912 by Seth H. Butler and his sons, Abbott G., Earle C., and Dale D. Butler, all of Middletown.
- The Alexander Montague Atherton Scholarship Fund, \$5,325**, founded in 1913 by Mrs. J. B. Atherton, of Honolulu, Hawaii, in memory of her son, who graduated in 1897.
- The Burr Scholarship Fund, \$3,149**, founded in 1915 by W. O. Burr, of Hartford.
- The Clarence Everett Bacon Scholarship Fund, \$1,042**, founded in 1916 in memory of Clarence Everett Bacon (B. A., 1878) by his wife, Mrs. Katharine S. Bacon, of Middletown, and his children, Katharine Whiting Bacon, Roger Whiting Bacon (B. A., 1910), and Clarence Everett Bacon, Jr. (B. S., 1913).
- The George L. Clark Scholarship Fund, \$6,206**, founded in 1916 by Hon. John C. Clark (B. A., 1886), of New York, N. Y., in memory of his father.
- The Davis Scholarship Fund, \$1,966**, founded in 1916 by Miss Ella A. Davis, of Stamford.
- The Roswell S. Douglass Scholarship Fund, \$3,648**, founded in 1916 by Mrs. Roswell S. Douglass, of Brookline, Mass., in memory of her husband, who graduated in 1861.



- The Alexander McLean Scholarship Fund, \$2,611,** founded in 1916 by Miss Ellen McLean, of Tarrytown, N. Y., in memory of Rev. Alexander McLean.
- The John R. Todd Scholarship Fund, \$2,611,** founded in 1916 by Miss Ellen McLean, of Tarrytown, N. Y., in memory of John R. Todd.
- The Terrill Scholarship Fund, \$2,608,** founded in 1916 by Rev. David G. Downey (B. A., 1884), of New York, N. Y., and his wife, Lilian Terrill Downey, in memory of Moses W. and Almira O. Terrill.
- The Julius Hotchkiss Scholarship Fund, \$2,611,** founded in 1916 by Miss Fanny Hotchkiss, of Middletown, in memory of Julius Hotchkiss.
- The Enoch Perkins Scholarship Fund, \$2,611,** founded in 1916 by Miss Cornelia A. Hotchkiss, of Middletown, in memory of Enoch Perkins.
- The Charles G. R. Vinal Scholarship Fund, \$2,611,** founded in 1916 by Charles G. R. Vinal (B. A., 1861), of Middletown.
- The George W. K. Taylor Scholarship Fund, \$2,578,** founded in 1918 by Mrs. Anna M. Taylor, of Brooklyn, N. Y., in memory of her husband.
- The William North Rice Scholarship Fund, \$5,021,** founded in 1920 by the New York East Conference of the Methodist Episcopal Church.
- The Payne Pettibone Scholarship Fund, \$10,000,** founded in 1921 by Mrs. Kate P. Dickson, of Wilkes-Barre, Pa., in memory of her father, a trustee of Wesleyan University from 1880 to 1888.
- The Reuben Nelson Scholarship Fund, \$10,000,** founded in 1921 by Mrs. Ellen N. Bennett, of Wilkes-Barre, Pa., in memory of her father, a trustee of Wesleyan University from 1877 to 1878.
- The Harvey Scholarship Fund, \$3,000,** founded in 1921 by Edwin B. Harvey (B.A., 1859), of Westboro, Mass.

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The following is an approximate statement of the number of specimens in the various departments of the museum:—

## DEPARTMENT OF ZOÖLOGY.

Mammals—skins mounted and unmounted, - - -	225
alcoholic, - - - - -	50
skulls and skeletons, - - - - -	110
Birds—skins mounted and unmounted, - - -	2,000
nests and eggs, - - - - -	1,600
Reptiles, - - - - -	600
Amphibians, - - - - -	200
Fishes, - - - - -	2,100
Insects—pinned and alcoholic, - - - - -	6,500
nests, borings, etc., - - - - -	50
Crustacea, - - - - -	1,500
Worms, - - - - -	1,800
Mollusks—shells, - - - - -	90,000
alcoholic, - - - - -	4,000
Echinoderms, - - - - -	1,000
Coelentera, - - - - -	1,700
Sponges and protozoa, - - - - -	150

## DEPARTMENT OF BOTANY.

Plants in herbarium, - - - - -	11,400
Specimens of wood, - - - - -	400
Miscellaneous botanical specimens, - - - - -	1,100

## DEPARTMENTS OF MINERALOGY AND GEOLOGY.

Minerals and rocks, - - - - -	22,100
Fossils—Paleozoic, - - - - -	11,500
Mesozoic, - - - - -	3,700
Cenozoic, - - - - -	3,000

## DEPARTMENT OF ETHNOGRAPHY.

Miscellaneous ethnographic specimens, - - -	4,400
Coins, - - - - -	7,000

The museum is open to the public on Wednesday and Saturday afternoons.

## FELLOWSHIPS AND SCHOLARSHIPS.

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If the cause of forfeiture has been removed, a scholarship may be restored after the lapse of a semester.

The committee on scholarships and loans has power, in exceptional cases, to waive the above regulations and to remit in full or in part the tuition or other charges.

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#### THE KATHRIN MILLER CADY SCHOLARSHIP.

This scholarship was founded in 1916 by Mrs. Caroline L. Miller of Middletown in memory of her daughter. The income of \$2,886 is given annually to a graduate or undergraduate student for advanced study in the department of physics.

#### THE WILLIAM DAY LEONARD SCHOLARSHIP.

This scholarship was founded in 1917 by friends of the late William Day Leonard, B. A., 1878. The income of \$2,713 is awarded annually by the Faculty to one of three undergraduates nominated by the College Senate. The undergraduates are from the Junior, Sophomore, or Freshman classes. Mr. Leonard's characterization of a man is as follows:

"Accomplished, without ostentation; grave, without austerity; gentle, without weakness; cheerful, without frivolity; conciliatory, but unbending; rigid in performance, yet indulgent toward all faults but his own."

Upon the basis of such characterization, the scholarship is awarded to the student who gives greatest promise of success through character, scholarship, physical endowments, personal popularity, and qualities of leadership.

The holder of the scholarship in 1922-23 is Joseph Hamilton Boyd, Jr., Class of 1923, of Upper Montclair, N. J.

#### SCHOLARSHIP FUNDS.

The income of the following scholarship funds is available, at the discretion of the President, to pay, in whole or in part, the tuition of deserving students who need pecuniary aid:

**The Frank S. Jones Scholarship Fund, \$1,166,** founded in 1892 by Frank S. Jones, of Brooklyn, N. Y.

**The Billings Scholarship Fund, \$3,984,** founded in 1902 by William Perry Billings, of Kingston, Pa.

**The Starks Scholarship Fund, \$1,172,** founded in 1902 by Mrs. Elizabeth B. Starks, of Troy, N. Y.

**The Shonk Scholarship Fund, \$27,245,** founded in 1903 by John J. Shonk and Mrs. George W. Shonk, of Plymouth, Pa., in memory of Hon. George W. Shonk (B. A., 1873).



- The Philip Reynolds Scholarship Fund, \$1,171,** founded in 1903 by Philip Reynolds, of Brockton, Mass.
- The Shepherd Scholarship Fund, \$3,344,** founded in 1904 by James G. Shepherd, of Scranton, Pa.
- The Connell Scholarship Fund, \$3,455,** founded in 1905 by Hon. William Connell, of Scranton, Pa.
- The Swift Scholarship Fund, \$35,233,** founded in 1905 by Mrs. Annie M. Swift, of Chicago, Ill., in memory of her husband, Gustavus F. Swift.
- The George G. Reynolds Scholarship Fund, \$2,814,** founded in 1906 by Hon. George G. Reynolds (B. A., 1841), of Brooklyn, N. Y.
- The Cyrus D. Jones Scholarship Fund, \$5,536,** founded in 1906 by Cyrus D. Jones, of Scranton, Pa.
- The Harriet Townsend Reynolds Scholarship Fund, \$2,812,** founded in 1907 by Hon. George G. Reynolds (B. A., 1841), of Brooklyn, N. Y., in memory of his wife.
- The Frank Reynolds Scholarship Fund, \$2,812,** founded in 1907 by Hon. George G. Reynolds (B. A., 1841), of Brooklyn, N. Y., in memory of his son, who graduated in 1868.
- The Abigail Pennoyer Reynolds Scholarship Fund, \$2,779,** founded in 1908 by Hon. George G. Reynolds (B. A., 1841), of Brooklyn, N. Y., in memory of his mother.
- The Samuel D. Hubbard Scholarship Fund, \$11,103,** founded in 1910 by Miss Jennie M. Clarke, of Middletown, in memory of her uncle, Hon. Samuel Dickinson Hubbard, for many years a trustee of Wesleyan University.
- The Montgomery Scholarship Fund, \$1,100,** founded in 1910 by the Rev. John E. Adams, D. D., of Patchogue, N. Y., trustee of the Jane P. Fitch Benevolent Fund, in memory of Rev. James Montgomery.
- The Mead Scholarship Fund, \$2,475,** founded in 1911 by Miss Elizabeth J. Mead, of Stamford, in memory of her father, Rev. Nathaniel Mead.

- The Lewis Gunn Scholarship Fund, \$2,709**, founded in 1911 by Mrs. Mary C. Holman, of Hopkinton, Mass., and Mrs. Lillie G. Smith, of Washington, Conn., in memory of their father, Rev. Lewis Gunn.
- The Jane D. Boardman Scholarship Fund, \$10,729**, founded in 1911 in memory of Mrs. Jane D. Boardman, of Middletown, by the executors of her estate, Hon. Frank B. Weeks, of Middletown, and Dr. Joseph H. Townsend, of New Haven.
- The Robert Alfred Davison Scholarship Fund, \$5,550**, founded in 1912 by George Willets Davison (B. A., 1892), of New York, N. Y., and his wife, Harriet Baldwin Davison, in memory of their son.
- The Walter Hubbard Scholarship Fund, \$42,833**, founded in 1912 by Walter Hubbard, of Meriden.
- The Butler Scholarship Fund, \$5,000**, founded in 1912 by Seth H. Butler and his sons, Abbott G., Earle C., and Dale D. Butler, all of Middletown.
- The Alexander Montague Atherton Scholarship Fund, \$5,325**, founded in 1913 by Mrs. J. B. Atherton, of Honolulu, Hawaii, in memory of her son, who graduated in 1897.
- The Burr Scholarship Fund, \$3,149**, founded in 1915 by W. O. Burr, of Hartford.
- The Clarence Everett Bacon Scholarship Fund, \$1,042**, founded in 1916 in memory of Clarence Everett Bacon (B. A., 1878) by his wife, Mrs. Katharine S. Bacon, of Middletown, and his children, Katharine Whiting Bacon, Roger Whiting Bacon (B. A., 1910), and Clarence Everett Bacon, Jr. (B. S., 1913).
- The George L. Clark Scholarship Fund, \$6,206**, founded in 1916 by Hon. John C. Clark (B. A., 1886), of New York, N. Y., in memory of his father.
- The Davis Scholarship Fund, \$1,966**, founded in 1916 by Miss Ella A. Davis, of Stamford.
- The Roswell S. Douglass Scholarship Fund, \$3,648**, founded in 1916 by Mrs. Roswell S. Douglass, of Brookline, Mass., in memory of her husband, who graduated in 1861.

- The Alexander McLean Scholarship Fund, \$2,611,** founded in 1916 by Miss Ellen McLean, of Tarrytown, N. Y., in memory of Rev. Alexander McLean.
- The John R. Todd Scholarship Fund, \$2,611,** founded in 1916 by Miss Ellen McLean, of Tarrytown, N. Y., in memory of John R. Todd.
- The Terrill Scholarship Fund, \$2,608,** founded in 1916 by Rev. David G. Downey (B. A., 1884), of New York, N. Y., and his wife, Lilian Terrill Downey, in memory of Moses W. and Almira O. Terrill.
- The Julius Hotchkiss Scholarship Fund, \$2,611,** founded in 1916 by Miss Fanny Hotchkiss, of Middletown, in memory of Julius Hotchkiss.
- The Enoch Perkins Scholarship Fund, \$2,611,** founded in 1916 by Miss Cornelia A. Hotchkiss, of Middletown, in memory of Enoch Perkins.
- The Charles G. R. Vinal Scholarship Fund, \$2,611,** founded in 1916 by Charles G. R. Vinal (B. A., 1861), of Middletown.
- The George W. K. Taylor Scholarship Fund, \$2,578,** founded in 1918 by Mrs. Anna M. Taylor, of Brooklyn, N. Y., in memory of her husband.
- The William North Rice Scholarship Fund, \$5,021,** founded in 1920 by the New York East Conference of the Methodist Episcopal Church.
- The Payne Pettibone Scholarship Fund, \$10,000,** founded in 1921 by Mrs. Kate P. Dickson, of Wilkes-Barre, Pa., in memory of her father, a trustee of Wesleyan University from 1880 to 1888.
- The Reuben Nelson Scholarship Fund, \$10,000,** founded in 1921 by Mrs. Ellen N. Bennett, of Wilkes-Barre, Pa., in memory of her father, a trustee of Wesleyan University from 1877 to 1878.
- The Harvey Scholarship Fund, \$3,000,** founded in 1921 by Edwin B. Harvey (B. A., 1859), of Westboro, Mass.

**The John J. Shonk and Amanda Davenport Shonk Scholarship Fund, \$5,000**, founded in 1921 by Albert Shonk, of Kingston, Pa., in memory of his father and mother.

**The William F. Armstrong Scholarship Fund, \$25,000**, founded in 1921 by William F. Armstrong, of New York, N. Y.

#### LOAN FUNDS.

Besides the scholarships above mentioned, there is a small fund from which loans are made to deserving students in the Junior and Senior classes. These loans bear a moderate rate of interest and are payable usually after graduation. In addition the income of loan funds established by Mrs. M. Amelia H. Vinal, of Middletown, and by the late C. Hutchinson Dye, Ph. B., '84, is available for students in need of assistance.

The Alumni Council Loan Fund, amounting to a total of \$5,000, is available for needy students, in such amount as is not already loaned. The loans, which are limited to \$200 per man per year, bear a moderate rate of interest, beginning six months after graduation or date of leaving college.

## COLLEGE HONORS.

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### PRIZES.

**THE PEIRCE PRIZE.**—A prize of fifteen dollars, the income of a fund given by Rev. Bradford K. Peirce, D. D., is awarded for excellence in natural science. It will be given in 1923 in the department of geology to the student who, having completed Courses 1 and 2, passes the best special examination upon them. The subject of the examination in 1924 will be biology; in 1925, chemistry.

**THE PHI BETA KAPPA PRIZE.**—A prize of twenty-five dollars, the gift of the Connecticut Gamma of Phi Beta Kappa, is awarded for excellence in Latin. It will be given in 1923 upon a special examination on Pliny's Letters.

No person who has once taken the Phi Beta Kappa prize may compete for it again.

**THE JOHN BELL SCOTT PRIZE.**—A prize of sixty-five dollars, the income of a fund given by the late Charles Scott, is awarded for excellence in the modern languages. It will be given in 1923 for the best essay on: The Dramatic Action in the Realistic Plays of Hauptmann. In 1924 the prize will be given for work in the department of Romance Languages.

**THE GIFFIN PRIZE.**—A prize of thirty-five dollars, the income of a fund given by Mrs. Giffin in memory of her husband, Rev. Charles Mortimer Giffin, D. D., is awarded for the best essay on the general topic of the English Bible. It will be given in 1923 for the best essay on: The Cultural Values of the Old Testament. Essays should be handed to the Professor of Ethics and Religion on or before the first Monday in May (May 7, 1923).

**THE CAMP PRIZE.**—A prize of thirty dollars, the income of a fund given in memory of Samuel T. Camp, is awarded for excellence in English literature. It will be given in 1923 upon a special examination in Course 6 in English.

**THE JOHNSTON PRIZE.**—A prize of twenty-five dollars, the gift of Rev. David G. Downey, D.D., LL.D., in memory of Professor John Johnston, is awarded for excellence in electricity. It will be given in 1923 upon a special examination based on the first half of Course 7 in physics.

**THE SPINNEY PRIZE.**—A prize of thirty dollars, the income of a fund given by Joseph S. Spinney, is awarded for excellence in Greek. It will be given in 1923 upon an examination based on Course 2 in Greek.

**THE RICE PRIZE.**—A prize of twenty dollars, given in memory of Rev. William Rice, D. D., is awarded for excellence in mathematics. It will be given in 1923 upon an examination based on Course 7 in mathematics.

**THE WALKLEY PRIZE.**—A prize of fifty dollars, the income of a fund given by the late Webster R. Walkley, D. C. L.—*in memoriam* David Hart Walkley, born April 23, 1857; graduated June 27, 1878; died September 16, 1878—is awarded for excellence in psychology. It will be given in 1923 to that member of the Junior or Senior class who presents the best essay on: The Psychological Contribution of John Locke.

**THE GERALD PRIZE IN ENGLISH.**—A prize of twenty-five dollars, the gift of Herbert Parvin Gerald, B. A., 1882, is awarded for excellence in some special phase of the work in one of the courses in English literature assigned to the Junior year. It will be given in 1923 after some special test, to be announced later, on the work of Course 20 in English.

**THE GERALD PRIZE IN ECONOMICS.**—A prize of twenty-five dollars, the gift of Herbert Parvin Gerald, B. A., 1882, is awarded for excellence in the elementary course in economics. It will be given in 1923 upon a special examination on Course 1 in economics, to be held near the end of the year.

Students who compete for either the Camp, the Johnston, the Spinney, the Rice, the Walkley, or the Gerald prizes must do so during the year in which they regularly pursue the course or courses on which the examination for the prize is based.

**THE WISE PRIZE.**—A prize of twenty-five dollars, the income of a fund given by Rev. Daniel Wise, D. D., is awarded for

excellence in ethics. It will be given in 1923 to the student who does the best work in Course 2 in Ethics and Religion.

**THE PRENTICE PRIZE.**—A prize of twenty dollars, given by the late Mrs. Elizabeth Brooks Prentice in memory of Professor George Prentice, is awarded to that member of the Senior or Junior class who excels in German. It is given in alternate years, and will not be awarded in 1923.

**THE SHERMAN PRIZE.**—A prize of fifteen dollars, the income of a fund given by Rev. David Sherman, D. D., is awarded this year to that member of the Freshman class who excels in Greek. It will be given upon a special examination designed to test the candidate's proficiency in the subjects covered in Greek 1. The subject of the examination in 1924 will be mathematics; in 1925, Latin.

**THE AYRES PRIZE.**—A prize of sixty-five dollars, the income of a fund given by Daniel Ayres, M. D., LL.D., is awarded to that member of the Freshman class who is found upon a special examination, held shortly after the beginning of the college year, to have attained the highest excellence in the studies of his preparatory course. The examination falls into three parts, covering the following subjects: (1) English, as required of all for admission; (2) algebra and plane geometry, as required of all for admission; (3) three years of a foreign language, ancient or modern, at the option of the candidate.

**THE RICH PRIZE.**—A prize of one hundred dollars, the income of a fund given by Isaac Rich, in memory of his wife, is awarded to that member of the Senior class whose oration at Commencement is deemed best in composition and delivery. These orations must not exceed fifteen hundred words in length, and must be left with the department of English on or before the first Monday in May (May 7, 1923).

**THE OLIN PRIZES.**—Two prizes,—a first prize of one hundred dollars and a second prize of fifty dollars,—the income of a fund founded by Mrs. Julia M. Olin and increased by Mrs. Emeline H. Olin, are awarded to members of the Senior class for excellence in English composition. The basis of the award is an essay of not less than 3,500 or more than 6,000 words, upon any subject that can be satisfactorily treated

in essay form. It is expected that the essay will be composed, at least in the form in which it is submitted, especially for this competition. The following subjects, indicating several kinds of topics which would be appropriate, are intended merely as suggestions:

1. The Small College: An Appreciation and a Criticism;
2. Recent American Poetry as an Expression of the American Temperament;
3. How the Church Should Meet the Demands of the Present Age;
4. The Self-Determination of Peoples: Theory and Practice;
5. Benjamin Franklin as the Typical Man of the Eighteenth Century;
6. The Reforestation of New England.

Essays must be left with the Department of English on or before the first Monday in May (May 7, 1923).

**JUNIOR EXHIBITION PRIZE.**—A prize of twenty-five dollars is awarded to that member of the Junior class who presents the best oration at the annual Junior Exhibition. In the award of this prize both the composition and the delivery of the oration are considered. The orations must be left with the Department of English three weeks before the date of the Exhibition.

**THE COLE PRIZE.**—A prize of thirty-five dollars, the gift of George Henry Walker, B. S., in memory of Charles Edward Cole, is awarded to that member of the Freshman class who maintains the highest standing in English composition during the second and third terms of his Freshman year. Those who wish to compete should announce their intention by the beginning of the second term.

**THE BRIGGS PRIZE.**—A prize of ninety dollars, the income of a fund given by James E. Briggs, is awarded to the student who excels in debate. No person who has once taken the Briggs prize may compete for it again.

**THE PARKER PRIZE.**—A prize of twenty-five dollars, the income of a fund given by Rev. John Parker, is awarded to that member of the Junior or Sophomore class who excels in declamation.

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The several committees of award will withhold any prize, if, in their judgment, none of the exercises presented in competition for it possess the requisite merit.



## AWARD OF PRIZES, 1921-1922.

*The Peirce Prize*, to ELISHA ADELBERT SILVERMAN, 1922.

*The Phi Beta Kappa Prize*, to GEORGE ROBERT BURNS, 1923.

*The John Bell Scott Prize*, to ARTHUR EUGENE SUTHERLAND, JR., 1922.

*The Giffin Prize*, to CARLTON FLETCHER HUBBARD, 1922.

*The Camp Prize*, to JOHN AINSWORTH DUNN, 1923.

*The Johnston Prize*, to NORMAN WYMAN STORER, 1923.

*The Spinney Prize*, to PAUL FRANKLIN VAKA, 1922.

*The Rice Prize*, to JULIAN KINGSLEY STEVENS, 1924.

*The Gerald Prize (English)*, to KENNETH RAVENSCROFT BALSLEY, 1922, and OSCAR CARGILL, 1922.

*The Gerald Prize (Economics)*, to LELAND ELLSWORTH LAGANKE, 1924.

*The Wise Prize*, to CARLTON FLETCHER HUBBARD, 1922.

*The Prentice Prize*, to ALFRED GEORGE HENRY MUELLER, 1922.

*The Sherman Prize*, to LEONARD BROTHWELL BEACH, 1925.

*The Ayres Prize*, to CHARLES ROBERT MINGINS, 1925.

*The Rich Prize*, to CARLTON FLETCHER HUBBARD, 1922.

Committee of Award: Reverend Charles Francis Rice, D. D., Herbert Parvin Gerald, M. A., LL. B., and Reverend Raymond Lalor Forman, D. D.

*The Olin Prize*, to WALTER RICHARD KIERNAN, 1922.

*The Junior Exhibition Prize*, to RISING LAKE MORROW, 1923.

Committee of Award: Professor Fleming James, Ph. D., Principal Frederick William Shearer, B. A., and Professor Frank Edgar Farley, Ph. D.

*The Cole Prize*, to NORMAN CARPENTER, 1925.

*The Briggs Prize*, to HAROLD CANUTE BUCKINGHAM, 1923, and CARLTON FLETCHER HUBBARD, 1922.

Committee of Award: Professors Conley, Fisher, and Woodbridge, Dr. Wilkinson, and Assistant Professor Snow.

*The Parker Prize*, to MONROE WILLIAM SMITH, 1924.

Committee of Award: Reverend Herbert Bacon Hutchins, M. A., Daniel Joseph Donahoe, Esq., and Reverend Harry Brown Belcher, D. D.

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## APPOINTMENTS FOR JUNIOR EXHIBITION AND COMMENCEMENT.

The Junior Exhibition is held on the third Tuesday evening in March. Members of the class seeking appointment hand in an oration of not more than one thousand words on or before February 15th. Ten of the writers are selected to take part in a preliminary contest the first week in March, and from them are selected six to participate in the final contest on the third Tuesday in March.

The selection of speakers for Commencement is determined as follows. Members of the Senior class seeking appointment to speak at Commencement hand in an oration; from the eight competitors whose work is adjudged to be of the highest merit, four are selected by means of a contest in declamation.

The speakers last year were:

### JUNIOR EXHIBITION.

Carl Ferdinand Christianson,	Rising Lake Morrow,
Robert Cheney Mansfield,	William Noble.

### COMMENCEMENT.

Oscar Cargill,	Herbert Gurnee,
Carlton Fletcher Hubbard.	

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## HONORS IN SCHOLARSHIP.

### I. HONORS IN GENERAL SCHOLARSHIP.

Two grades of honors, designated respectively as honors and high honors, are conferred at graduation, based upon the general scholarship of the student throughout his whole course.

A student completing the requirements for graduation with grades in all courses or half courses completed averaging B shall be graduated with honor; with grades averaging A—with high honor.

## II. DEPARTMENTAL HONORS.

### GENERAL STATEMENT.

Two grades of departmental honors, designated respectively as Junior honors and Senior honors, are offered in the several departments.

Departmental honors are awarded for voluntary and intensive study, reading, research, or laboratory work done by the student within the general field of the courses taken as a major study, including, if desirable, other courses in the student's concentration group. While this work is usually supplementary and related to the regular courses, work of a wider and more independent scope and character may be accepted, provided it falls within the general field of the concentration group; but no such plan of work will be approved which would in any considerable degree duplicate a course which the student is counting for graduation.

The purposes of both grades of departmental honors are the development on the part of the student of initiative, power of independent investigation, and critical or constructive scholarship. They are intended to encourage the student to undertake work in connection with his courses beyond the customary requirements.

The candidate should realize that the responsibility for the prosecution of the undertaking rests with himself and not with his instructor. The work is to be carried on in consultation with a professor in the student's major department, but as far as practicable the choice of subjects and the conduct of the work is left to the candidate himself.

It is expected that candidates for departmental honors will not elect more than sixteen hours of courses in addition to the required work in physical education, and students planning to become candidates for Senior honors are advised to plan their previous elections so that they may take as nearly as possible the minimum quota of regular courses in the Senior year.

All work required for Junior and Senior honors must be completed before the beginning of the final examinations in June.

Awards of honors in general scholarship, of Junior and Senior departmental honors, and of honorable mention will be printed on the programme at Commencement, in the Catalogue, and in the Alumni Record, and will be suitably posted throughout the ensuing year.

#### JUNIOR HONORS.

Any Junior of normal standing may become a candidate for Junior honors. The amount of work should approximate that required of a three-hour course for one semester. Applications must be made not later than three months prior to Commencement, and a brief preliminary report of the work must be presented to the professor and by him to the committee on departmental honors at least two months before Commencement.

*Examinations.*—After suitable tests of the applicant's work by theses, reports, or other methods, the instructors in the department concerned shall present a recommendation to the committee on special honors. Then the committee is empowered to make such additional tests as it may deem necessary.

*Awards.*—Awards of Junior honors are made by the Faculty upon recommendation of the committee on departmental honors. No student is eligible who is not in normal standing in the Junior class, or who has failed to receive a grade of C— or higher in any course pursued at the same time as the departmental honor work. The candidate must have attained an average grade not lower than B in those courses which comprise the major portion of his concentration group so far as pursued, and in the departmental honor work.

#### SENIOR HONORS.

Any Senior of normal standing may become a candidate by applying not later than the tenth of October of his Senior year, at which time an outline of proposed study or investigation in connection with the courses which he is pursuing for his major study, or for his concentration group, shall be presented for

approval to the professor in charge of the major study, and by him to the committee on departmental honors. The amount of work shall approximate that of a three-hour year course.

A preliminary report must be submitted to the professor in charge, and by him to the committee, at least fifteen days before the close of the first semester, and if the report is unsatisfactory the candidacy is cancelled.

Upon recommendation of the professor, and with the approval of the administration committee, a student satisfactorily pursuing work for Senior honors may during the second semester receive an increased allowance of absences from college exercises, except in the case of announced written recitations and examinations, subject to revocation in case of abuse of the privilege.

*Examination.*—Upon recommendation of the instructors in the department concerned, candidates for Senior honors will be examined, both in the general field of their major study and in the departmental honor work, by the committee on departmental honors and such others as they may wish to associate with themselves. In the award of honors, a thesis, report, or other evidence of proficiency may also be considered.

*Awards.*—Awards of Senior honors are made by the Faculty upon recommendation of the committee on departmental honors. No student is eligible who does not hold regular standing in the Senior class, or who has failed to receive a grade of C— or higher in any course pursued at the same time as the departmental honor work. The candidate must have attained an average grade not lower than B in those courses which comprise the major portion of his concentration group so far as pursued, and in the departmental honor work.

High Senior honors may be awarded by the Faculty to candidates for Senior honors whose departmental honor work gives evidence of unusual capacity for independent investigation, and whose grades, in all courses in his concentration group, are A— or higher.

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*Honorable Mention.*—A student who did not receive Junior honors may comply with the requirements therefor in his Senior year, in which case he may be awarded honorable mention in the department.

## AWARD OF HONORS.

### COMMENCEMENT, 1922.

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#### HONORS IN GENERAL SCHOLARSHIP.

##### HIGH HONORS.

Herbert Gurnee,

Arthur Eugene Sutherland, Jr.

##### HONORS.

Kennith Ravenscroft Balsley, Alfred George Henry Mueller,

Nelson Marigold Burroughs, Robert Edward Overhysser,

Oscar Cargill, Alexander Paris Robertson,

John Stevenson Foster, Elisha Adelbert Silverman,

Ranald Victor Giles, Donald Livingston Starbuck,

John Stanley Lachowicz, George Ripley Tracy,

James Bliss MacLean, Paul Franklin Vaka.

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#### DEPARTMENTAL HONORS.

##### JUNIOR HONORS.

Biology: Gordon Clark Ring.

Chemistry: Norman Wyman Storer.

Economics: John Ainsworth Dunn,  
John Robert Galvin.

German: Laurance Bradford Snow.

## DEGREES.

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The following degrees are conferred by the University in course: Bachelor of Arts (B. A.), Bachelor of Science (B. S.), Master of Arts (M. A.). The degree of Bachelor of Philosophy (Ph. B.) will be conferred, beginning with the class of 1923.

**THE BACHELOR'S DEGREE.**—The degrees of Bachelor of Arts, Bachelor of Science, and Bachelor of Philosophy are conferred on those who have met the requirements for admission to the respective courses as set forth on page 38, and have taken the required quota of studies in college, as prescribed on pages 114-116.

The baccalaureate degree is awarded *summa cum laude* to a student who takes both high general and high Senior departmental honors; *magna cum laude*, to a student who takes either high general or high Senior departmental honors; *cum laude*, to a student who takes either general or Senior departmental honors.

**THE MASTER'S DEGREE.**—The degree of Master of Arts is conferred in accordance with the following regulations:—

1. The degree of Master of Arts is conferred upon Bachelors of Wesleyan University, of at least one year's standing, at the satisfactory conclusion of a course of advanced, non-professional study, pursued in residence for a period of not less than one year.\* This course of study is under the

\* Candidates for the Bachelor's degree who satisfy the requirements for honors in general scholarship may in their Senior year be admitted to candidacy for the Master's degree, provided that the amount of their undergraduate work remaining to be completed at the close of the September special examinations does not exceed three hours. Except by express permission of the Committee on Graduate Instruction, their undergraduate work must satisfy the group requirement in such manner that they are free to elect the remaining three hours in the department or departments in which they intend to do graduate work. Such candidates shall not be members of any athletic or debating teams, musical or dramatic organizations, or take part in any similar undergraduate activity. This rule, however, does not necessarily debar them from competing for any prize for which they would be eligible as undergraduates. The entire work of these candidates is under the direction of the Committee on Graduate Instruction. The Master's degree will not be conferred upon them until the Commencement succeeding that at which the Bachelor's degree has been conferred.

full direction of the Committee of the Faculty on Graduate Instruction, composed of three permanent members with the addition of the instructor in charge of each department in which the candidate pursues work.

2. In the case of Bachelors of other colleges whose course of study is accepted by the Committee on Graduate Instruction, or who pass such additional examinations as the Committee may prescribe, the degree of Master of Arts is conferred on the conditions prescribed in the case of Bachelors of Wesleyan University.

3. Graduate students, excepting assistants and fellows, pay the regular tuition and laboratory fees. A fee of five dollars is required of every candidate for the Master's degree at his registration, and a fee of ten dollars is required before the degree is conferred. Both fees are payable to the Assistant Treasurer of the University.

4. Evidence of the candidate's proficiency in the approved course of study is given in one or more of the following ways, as the Committee may prescribe: (*a*) by examinations, oral or written; (*b*) by a thesis; (*c*) by the exhibition of scientific specimens, preparations, or processes. All such tests of proficiency are under the direction of the Committee, who will report to the Faculty proper candidates for the degree.

In addition to these regulations of the trustees, the Committee on Graduate Instruction has from time to time adopted standing rules of procedure, among which the following should be noted as specially important:—

A prospective candidate for the Master's degree must apply to the secretary of the Committee on Graduate Instruction. Such application must be made not later than October 15 of the academic year during which he proposes to conclude his studies for the degree. On receipt of such an application, the Committee will consult the instructors concerned, who will communicate with the candidate, if necessary, and will prepare a course of study and submit it to the Committee. The course of study prescribed for the candidate may be confined to a single department, or may include work in more than one department; but the Committee does not usually approve



courses including work in more than two departments, nor in any case a course which is lacking in unity.

When the course of study submitted by the instructors has been approved by the Committee, and the receipt for the payment of the required fees has been presented to the secretary of the Committee, the candidate will be formally admitted. He will then receive an official copy of the course of study prescribed for him, including a statement of the number and character of the examinations required.

Whatever other tests of proficiency may be prescribed, each candidate for the Master's degree is required to pass an oral examination in the presence of the Committee, upon the whole, or a previously specified part, of his course of study.

All examinations of candidates for the Master's degree are conducted at the University.

Unless the Committee, for important reasons, determines otherwise in some specific case, no examinations will be given (except in regular college courses), and no thesis or other work prescribed in preparation for the degree will be received, after the beginning of the final examinations in the academic year in which the candidate desires to be recommended for the degree.

When the preparation of a thesis is prescribed, the candidate is required to present through the Secretary, at or before the time of his final examination, one or more copies thereof for preservation in the University Library, and in such other places as the Committee may determine. Such theses are to be neatly and accurately printed, or type-written, on paper of letter size, and substantially bound. A model of suitable execution may be seen at the University Library.

DEGREES CONFERRED.  
COMMENCEMENT, JUNE 19, 1922.

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## DEGREES IN COURSE.

The Degree of Bachelor of Science was conferred on:

Raymond Starr Kidder.  
As of the Class of 1913.

Lyndon Travis Abbot,                      Leon Alson Bradley,  
   Morris Winfield Carey.  
As of the Class of 1920.

Harry Donald Richards,                  Crosby Jordan Seybolt,  
   Donald Prince Underhill.  
As of the Class of 1921.

Philip Gardner Baker,	Harland Gilbert Foster,
Stanley Hardy Beeman,	John Stevenson Foster,
Frederick Jacob Bergmann, 2nd,	Henry Raymond Gilbert,
Jesse Howard Buell,	Ranald Victor Giles,
Philip Raymond Burchard,	Carlton Covil Gordon,
Harold Frederick Burgess,	John Henry Helmken,
Charles Evans Butler,	Frank Magee Henson,
Harry Callendar Butterworth,	Richard Cheney Hitchcock,
Charles Henry Carey,	Keith Gilbert Holt,
Oscar Cargill,	Raymond George Jackson,
James Maitland Clark,	Charles Franklin Kniffen,
Donald Staggs Clinchy,	William Alexander Kugler,
Irving Forrester Cook,	John Stanley Lachowicz,
Lawrence Howard Doolittle,	Norman Robert Lee,
Caryl Clayton Dunavan,	Harold Levine,
Walter Edward Falk,	George Washington McKenzie, Jr.,

Herman George Mickelson,	Charles Henry Schifferdecker,
Charles Edward Mowry,	Elisha Adelbert Silverman,
Isaac Nassau,	William Leland Sitgreaves,
Walter Nathaniel Nelson,	Richard Buckbee Stannard,
John Jacob Niewann,	Donald Livingston Starbuck,
Robert Wade Parsons,	Merton Horatio Strickland,
Morris Louis Rakieta,	George Ripley Tracy,
Hugo Emil Rausch,	Edbert Hilding Wall,
Frank Leslie Raynor,	Edward Martin Westburg,
Frederick Charles Reich,	Harold Clayton Whiteley,
Carlyle Conwell Ring,	Samuel Norman Williams,
Harold Frederick Robertson,	Stephen Culver Williams,
Benjamin Rosenthal,	Harry Thayer Woodward,
Robert Alexander Scarborough,	John Mortlock Woodward,
	Ellwood Meridyth Young.

The Degree of Bachelor of Arts was conferred on:

Clifford Burdett Adams,	Orlando John May,
David William Adams,	Russell Leffard Morgan,
Harley Frank Atwood,	Alfred George Henry Mueller,
Kennith Ravenscroft Balsley,	Robert Edward Overhysser,
Samuel Allison Budde,	Lewis Hamlin Piper,
Nelson Marigold Burroughs,	Frank William Putnam,
Kenneth Ellsworth Carrington,	John Carl Rash,
Manfred Amos Carter,	Winslow Tracy Richmond,
Walter Arthur Crowell,	Alexander Paris Robertson,
Albert Merritt Dietterich,	William Duncan Russell, Jr.,
Stanbrough Fernald,	James Allen Scott,
Dwight Clark Francis,	George Mathew Spence,
Herbert Gurnee,	Frederick Bowman Stauffer,
Charles Newman Hogle,	Charles Alexander Stewart,
Charles Worth Howard,	Arthur Eugene Sutherland, Jr.,
Carlton Fletcher Hubbard,	Coley Banks Taylor,
Archer Lewis Hurd,	Walter Ernest Todd,
Irving Gibson Idler,	Paul Franklin Vaka,
Conrad Clark Johnson,	Ralph Radley Vernon,
William Bradford Lawton, Jr.,	Ralph Wilbur Walter,
William Corson McHenry,	Elbert Cook Weaver,
James Bliss MacLean,	John Hubert Wubben.

The Degree of Master of Arts on examination was conferred on:

Bernard Aloysius Kosicki, B.A., 1921. Subjects: French, Spanish, Latin. Thesis: "The Sources, Influence, and Characteristic Features of Old French Epic Poetry."

George William Bain, B.S., 1920. Subjects: Physics and Mathematics. Thesis: "High Frequency Vibrations Due to Piezo-Electric Crystals."

#### HONORARY DEGREES.

The Degree of Doctor of Divinity was conferred on:

Robert LeRoy Thompson, Class of 1893.

Harry Sargeant Scarborough.

The Degree of Doctor of Laws was conferred on:

Cornelius Cole, B.A., 1847.

Edwin Holt Hughes, Bishop of the Methodist Episcopal Church.

John Campbell Merriam, President of the Carnegie Institution of Washington.

## PUBLICATIONS.

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**ALUMNI RECORD.**—Through the liberality of Orange Judd, M. A., a Biographical Record of the Alumni of the University was published in 1869. A fifth edition of this Record, revised and corrected, was issued in January, 1922. This edition contains not only the record of alumni, revised and corrected to the date of publication, but also a list of all former students not graduates, with their residences, and such other information with reference to them as the most thorough search could obtain. It includes also a brief account of the honorary alumni and the members of the Faculty not graduates of Wesleyan. Copies of this edition may be had upon application to the librarian, W. J. James. The price of the Record, postage prepaid, is \$3.00.

An address list of the living graduates, non-graduates, and honorary alumni, together with a geographical list, is published annually by the Alumni Council as one number of the *Bulletin*. Information as to change of address should be sent to the Alumni Secretary, Mr. A. B. Haley, Middletown, Conn.

**BULLETIN.**—The *Bulletin* was first issued in 1888, and has since been published twice a year (usually in May and December), under the direction of a committee of the Faculty. It contains accounts of trustee and alumni meetings, lists of recent gifts, statements of the most urgent needs of the University, changes in the Faculty and courses of study, department notes, and various other matters of interest to the alumni and friends of the institution. The Annual Catalogue, and the Address List of Alumni, also published annually, appear as numbers of the *Bulletin*. The *Bulletin* is sent to the trustees and alumni, and may be obtained by other friends of the University upon application to the Dean.

**WINCHESTER MEMORIAL VOLUME.**—In June, 1921, a committee appointed by the Board of Trustees published a book of 346 pages with the title, *A Memorial to Caleb Thomas Winchester*. This volume contains the text of the six addresses made at the complimentary dinner tendered Professor Winchester in June, 1919, two biographical sketches which appeared shortly after his death, and numerous memorial addresses, resolutions, and press notices. There is also an account of Professor Winchester as a public lecturer, together with a bibliography of his published writings, and a description of the various courses which he taught in Wesleyan University. There are six full-page illustrations. The book may be obtained for one dollar and a half from the Secretary of the Alumni Council, East Hall, Middletown.

**THE BENNETT LECTURES.**—The University publishes the lectures which are delivered from year to year on the George Slocum Bennett Foundation. Four volumes of this series are now ready. The names of the lecturers and their subjects may be found on page 117. These works are published by the Abingdon Press, New York, and can be obtained from book-sellers at one dollar and a half each.

**WESLEY BICENTENNIAL.**—A memorial volume was issued early in 1904 containing a full record of the celebration of the bicentennial anniversary of the birth of John Wesley by Wesleyan University at the Commencement of 1903. The book was printed by Theo. L. DeVinnie & Co., of New York. It contains over 250 pages, and includes a general account of the celebration, the full text of all the addresses delivered, and an appendix giving the names of all committees, of the invited guests who were present, of all recipients of degrees, honorary and in course, and of nearly six hundred alumni who attended the celebration. It is illustrated also with several pictures of the college buildings and grounds, with two excellent portraits of John Wesley, and with portraits of the principal speakers. Applications for the memorial volume should be sent to the Librarian of Wesleyan University. Price \$1.50, postage prepaid.

**SEVENTY-FIFTH ANNIVERSARY.**—A memorial volume, descriptive of the celebration of the seventy-fifth anniversary of the founding of Wesleyan University, held during the Commencement week of 1906, was published in June, 1907. The volume contains a full account of all the proceedings, including the text of all the addresses, a list of the alumni attending the celebration, a list of degrees conferred, etc., and is illustrated with pictures relating to the history of the University. The historical address by Professor William North Rice and the pictures of the college, old and new, are of peculiar interest to all former students. The volume is published in a form in keeping with the interesting and valuable record it contains. Applications for this volume should be sent to the Librarian of Wesleyan University. Price one dollar, postage prepaid.

**INSTALLATION VOLUME.**—A volume entitled *The Installation of William Arnold Shanklin, L.H.D., LL.D., as Ninth President of Wesleyan University*, was published in 1910. Besides an introductory account of the exercises, the book contains a verbatim report of all the speeches delivered at the various exercises of the day, reproductions of all programs and other printed matter connected with the occasion, and lists of the trustees, Faculty, delegates, invited guests, and alumni who were in attendance. A portrait of President Shanklin forms the frontispiece. The volume contains 154 pages and is neatly bound in dark red cloth. Copies may be obtained from the Librarian of the University at one dollar each.

**NECROLOGY.**—A list of deceased graduates of the University is published annually in the Spring *Bulletin*. All persons who can supply information for future lists are urgently requested to communicate the same to Dean F. W. Nicolson.

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## EMPLOYMENT BUREAUS.

An employment bureau is maintained in the office of the Dean for the purpose of securing positions as teachers for grad-

uates of the college. Those who wish to avail themselves of the opportunity thus offered are invited to register; and the alumni and friends of the college are urgently requested to inform the Dean of any vacancy coming to their notice which might be filled by a Wesleyan graduate.

An employment bureau is maintained by the Young Men's Christian Association through which needy undergraduates are aided in securing employment during the college year and the summer vacation. Those who wish to avail themselves of this opportunity are invited to register. Alumni and friends of the college are requested to inform the Secretary of the Association of any vacant positions which might be filled by Wesleyan men. No fees are charged in either bureau.



## THE ALUMNI COUNCIL.

The Alumni Council is composed of one representative each from the classes that have graduated, and of ten members at large, elected by the Council, none of whom may be members of the Board of Trustees or of the Faculty of the college.

This basis of organization makes the Council fairly representative of the entire body of the alumni and, at the same time, gives it a distinctive character, naturally sympathetic with the administration and with the undergraduates, yet independent of both, and with a view-point of its own.

The object of the organization is to strengthen the relations of the alumni and the University, and to bring all Wesleyan graduates and non-graduates into one compact body working for the interests of the institution.

The Council maintains offices in East Hall, with an efficient equipment at the service of the alumni, which provides a ready means of communication among the alumni themselves, and between the alumni, the undergraduates, and the authorities of the college.

### OFFICERS AND MEMBERS OF THE COUNCIL, 1922-23.

#### CHAIRMAN.

Edward L. Steele, '94, 50 State St., Hartford.

#### VICE-CHAIRMAN.

Franklin T. Kurt, '95, 553 Boylston St., Boston, Mass.

#### SECRETARY.

A. B. Haley, '07, Room 2, East Hall, Middletown.

### EXECUTIVE COMMITTEE (Chairmen of Standing Committees).

F. I. Brown, '98,	Finance.
R. B. Chamberlin, '09,	Class Organizations.
C. F. Price, '02,	Publicity.
F. C. Brodhead, '11,	Alumni Associations.
C. H. Tryon, '05,	Undergraduate Activities.
G. L. Plimpton, '91,	Preparatory Schools.
W. A. Thompson, '97,	Athletics.

## MEMBERS AT LARGE.

W. F. Sheldon, '99,	R. B. Chamberlin, '09,
C. S. Neumann, '02,	E. D. Deremer, '10,
C. F. Price, '02,	F. C. Brodhead, '11,
K. M. Goode, '04,	G. G. Davidson, '13,
G. I. Bodine, Jr., '06,	A. I. Prince, '15.

## CLASS REPRESENTATIVES.

CLASS.	CLASS.
1882 B. M. Gallien,	1904 L. De V. Day,
1886 J. C. Packard,	1905 C. H. Tryon,
1887 E. S. Ninde,	1906 C. E. Hancock,
1888 W. M. Cassidy,	1907 W. C. North,
1889 S. V. Coffin,	1908 R. W. Rice,
1890 W. W. Thompson,	1909 H. S. Guy,
1891 G. L. Plimpton,	1910 W. B. Holton, Jr.,
1892 R. M. Grant,	1911 F. T. Davis,
1893 R. C. Parker,	1912 H. V. Leonard,
1894 E. L. Steele,	1913 P. Burt,
1895 F. T. Kurt,	1914 H. L. Pratt,
1896 W. H. Burgwin,	1915 F. B. Upham, Jr.,
1897 W. A. Thompson,	1916 R. E. Baldwin,
1889 F. I. Brown,	1917 H. S. Baldwin,
1899 J. E. Tackaberry,	1918 L. I. Pitt,
1900 W. MacNaughten,	1919 A. Dodd,
1901 W. P. Ogden,	1920 F. M. Davenport, Jr.,
1902 R. A. Anderson,	1921 D. L. Hartman,
1903 H. H. Smith,	1922 A. P. Robertson.

## ALUMNI ASSOCIATIONS.



## WESLEYAN ALUMNI CLUB OF NEW ENGLAND.

*President*—Carl Noyes Quimby, '90, Boston, Mass.

*Secretary*—Benning Lewis Wentworth, ex-'14, 46 Cleveland St., Melrose, Mass.

## WESLEYAN UNIVERSITY CLUB OF NEW YORK.

*President*—William Alexander Thompson, '97, New York, N. Y.

*Secretary*—Francis Bourne Upham, Jr., '15, 80 Broadway, New York, N. Y.

WESLEYAN UNIVERSITY ALUMNI CLUB OF NORTHEASTERN  
PENNSYLVANIA.

*President*—Ralph Walter Rymer, '00, Scranton, Pa.

## WESLEYAN ALUMNI ASSOCIATION OF NEWARK AND VICINITY.

*President*—Louis DeKoven Day, '04, Newark, N. J.

*Secretary*—Franklin Edward Fellows, '21, 790 Broad St., Newark, N. J.

## PHILADELPHIA WESLEYAN ALUMNI ASSOCIATION.

*President*—George Imlay Bodine, Jr., '06, Philadelphia, Pa.

*Secretary*—Henry Heuer, Jr., '21, 115 Gowen Ave., Philadelphia, Pa.

## WESLEYAN ALUMNI ASSOCIATION OF THE MIDDLE WEST.

*President*—John McCarthy, '83, Evanston, Ill.

*Secretary*—Frank Hopewell Underhill, '18, 326 W. Madison St., Chicago, Ill.

## WESLEYAN ALUMNI ASSOCIATION OF MAINE.

*Secretary*—Paul Nixon, '04, Brunswick, Me.

## WESLEYAN ALUMNI ASSOCIATION OF WASHINGTON, D. C.

*President*—Martin Augustine Knapp, '68, Washington, D. C.

*Secretary*—George Wood Vinal, '06, National Bureau of Standards, Washington, D. C.

## WESLEYAN ALUMNI CLUB OF EASTERN NEW YORK.

*President*—Clarence Frederic Hale, '03, Albany, N. Y.

*Secretary*—Harold Purcell Winchester, '14, 590 Morris St., Albany, N. Y.

## WESLEYAN ALUMNI CLUB OF WESTERN NEW YORK.

*President*—Harold Charles Hutchison, '87, Buffalo, N. Y.

*Secretary*—Richard William Eaton, '12, 331 Washington St., Buffalo, N. Y.

## WESLEYAN ALUMNI CLUB OF DETROIT.

*President*—Frederick Wright Robbins, '80, Detroit, Mich.

*Secretary*—Perry Childs Hill, '99, Care Detroit Twist Drill Co., Detroit, Mich.

## WESLEYAN ALUMNI CLUB OF CINCINNATI.

*President*—Albert Julius Nast, '68, Cincinnati, Ohio.

*Secretary*—Richard Sutton Rust, '12, Union Central Life Ins. Co., Cincinnati, Ohio.

## WESLEYAN ALUMNI ASSOCIATION OF ROCHESTER, N. Y.

*President*—James Halstead Boucher, ex-'74, Rochester, N. Y.

*Secretary*—Andrew Reed Sutherland, '11, Rochester Savings Bank Bld'g., Rochester, N. Y.

## CONNECTICUT ALUMNI ASSOCIATION.

*Vice-President*—William Rulon Williamson, '09, Hartford.

*Secretary*—Clifford Clark Payson, '18, 64 Pearl St., Hartford.

## CALENDAR.

---

1922.

- Sept. 21. Thursday—Matriculation Service.  
 Sept. 22. Friday, 7:50 A. M.—First term begins.  
 Nov. 29. Wednesday, 12:00 M.—Thanksgiving vacation begins.  
 Dec. 4. Monday, 7:50 A. M.—Thanksgiving vacation ends.  
 Dec. 19. Tuesday, 5:00 P. M.—Christmas vacation begins.  
       Last day for applying for winter special examinations.

1923.

### CHRISTMAS RECESS.

- Jau. 3. Wednesday, 7:50 A. M.—Christmas vacation ends.  
 Jan. 29. Monday—Mid-year examinations begin.  
 Feb. 7. Wednesday—Mid-year examinations end.  
 Feb. 12. Monday—Second half-year begins.  
 Feb. 15. Thursday—Last day for handing in Junior Exhibition essays.  
 Feb. 16, 17. Friday, Saturday—Introduction days.  
 Mar. 19. Monday—Last day for applying for Junior honors.  
 Mar. 20. Tuesday—Junior Exhibition.  
 Mar. 28. Wednesday, 6:00 P. M.—Easter vacation begins.  
       Last day for applying for spring special examinations.

### SPRING RECESS.

- Apr. 5. Thursday, 7:50 A. M.—Easter vacation ends.  
 May 7. Monday—Last day for presenting prize essays.  
 May 30. Wednesday—Memorial Day, a holiday.  
 June 2. Saturday—Last day for completing work for the Master's degree, and for departmental honors.  
 June 4. Monday—Annual examinations begin.  
 June 13. Wednesday—Annual examinations end.  
 June 15. Friday—Prize declamation contest.  
 June 16. Saturday morning—Meeting of the Board of Trustees.  
 June 16. Saturday morning—Meeting of the Alumni Council.  
 June 16. Saturday morning—Class Day exercises.

- June 17. Sunday morning—Baccalaureate sermon.
- June 17. Sunday evening—University sermon.
- June 18. Monday morning—Annual meeting of the Phi Beta Kappa Society.
- June 18. Monday morning—COMMENCEMENT.
- June 18. Monday afternoon—Alumni luncheon.
- June 18. Monday afternoon—Social receptions by the college fraternities.
- June 18-23. Examinations of the College Entrance Examination Board.

#### VACATION OF THIRTEEN WEEKS.

- Sept. 14, 15, 17. Examination of candidates for admission.
- Sept. 18. Tuesday—Fall special examinations begin.
- Sept. 18. Tuesday—Registration of Freshmen.
- Sept. 19. Wednesday—Registration of three upper classes.
- Sept. 20. Thursday, 9:00 A. M.—Matriculation Service.
- Sept. 21. Friday, 7:50 A. M.—First term begins.
- Oct. 10. Wednesday—Last day for applying for Senior honors.
- Nov. 28. Wednesday, 12:00 M. — Thanksgiving vacation begins.
- Dec. 3. Monday, 7:50 A. M.—Thanksgiving vacation ends.
- Dec. 19. Wednesday, 5:00 P. M.—Christmas vacation begins.

1924.

#### CHRISTMAS RECESS

- Jan. 3. Thursday, 7:50 A. M.—Christmas vacation ends.
- Jan. 28. Monday—Mid-year examinations begin.
- Feb. 6. Wednesday—Mid-year examinations end.
- Feb. 11. Monday—Second half-year begins.
- Apr. 16. Wednesday, 6:00 P. M.—Easter vacation begins.

#### SPRING RECESS.

- Apr. 24. Thursday, 7:50 A. M.—Easter vacation ends.
- June 2. Monday—Annual examinations begin.
- June 11. Wednesday—Annual examinations end.
- June 16. Monday morning—COMMENCEMENT.

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## CALENDAR

1923

1924

JANUARY

MAY

SEPTMBER

JANUARY

S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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15	16	17	18	19	20	21	15	16	17	18	19	20	21	15	16	17	18	19	20	21	15	16	17	18	19	20	21
22	23	24	25	26	27	28	22	23	24	25	26	27	28	22	23	24	25	26	27	28	22	23	24	25	26	27	28
29	30	31					29	30	31					29	30	31					29	30	31				

FEBRUARY

JUNE

OCTOBER

FEBRUARY

[illegible]

MARCH

JULY

NOVEMBER

MARCH

[illegible]

APRIL

AUGUST

DECEMBER

APRIL

1	2	3	4	5	6	7	-	-	1	2	3	4	5	6	7	-	-	1	2	3	4	5	6	7	-	-					
8	9	10	11	12	13	14	3	6	7	8	9	10	11	2	3	4	5	6	7	8	9	10	11	2	3	4	5	6	7	-	-
15	16	17	18	19	20	21	12	13	14	15	16	17	18	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
29	30	-	-	-	-	-	19	20	21	22	23	24	25	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	-	-	-
29	30	-	-	-	-	-	26	27	28	29	30	31	-	23	24	25	26	27	28	29	27	28	29	27	28	29	30	-	-	-	-

178-13  
U.S.  
JAN 04 1924

Vol. 17

NOVEMBER, 1923

No. 4

THE  
WESLEYAN UNIVERSITY  
BULLETIN



CATALOGUE NUMBER  
1923-1924

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MIDDLETOWN, CONNECTICUT  
PUBLISHED BY THE UNIVERSITY  
1923



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OF

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1923-1924



MIDDLETOWN, CONN.  
MCMXXIII

## THE WESLEYAN UNIVERSITY BULLETIN.

Published by the University five times a year, in May, June, September, November, and December. Entered as second-class mail matter, June 9, 1914, at the post-office at Middletown, Connecticut, under the Act of Congress of August 24, 1912.

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Herman George Mickelson, B. S., CHEMISTRY, GEOLOGY.	<i>Branford.</i>	<i>44 North College.</i>
Harris Cary Palmer, B. S. (Bates College), PHYSICS.	<i>Buckfield, Me.</i>	<i>343 Washington St.</i>
Gordon Clark Ring, B. S., PSYCHOLOGY, BIOLOGY.	<i>Westfield, Mass.</i>	<i>62 North College.</i>
Carleton Forman Scofield, B. A., PHILOSOPHY, PHYSICS, BIOLOGY.	<i>Trenton, N. J.</i>	<i>A Δ Φ House.</i>
George Everett Shattuck, Ph. B. (Brown University), HISTORY.	<i>Middletown.</i>	<i>16 Brainerd Ave.</i>
Norman Wyman Storer, B. S., ASTRONOMY, PHYSICS, MATHEMATICS.	<i>Pittsburgh, Pa.</i>	<i>62 North College.</i>
Arthur Burnley Watson, B. S. (Connecticut Agricultural College), CHEMISTRY.	<i>Farmington.</i>	<i>110 High St.</i>
Ralph Foster Weld, B. S., HISTORY, PHILOSOPHY.	<i>Middletown.</i>	<i>23 Robert St., S. Farms.</i>



## SENIORS—CLASS OF 1924.

NAMES.	RESIDENCES.	ROOMS.
Frederic Henry Adams,	<i>Beirut, Syria.</i>	Γ Ψ House.
Jarvis Munson Adams,	<i>New Haven.</i>	Δ Υ House.
William Fraser Aitken,	<i>New Haven.</i>	Γ Ψ House.
† Frederick Otwell Anderson,	<i>Yonkers, N. Y.</i>	Δ T Δ House.
† Louis Ralph Arnold,	<i>Norwalk.</i>	Σ N House.
† Robert Thompson Banister,	<i>White Plains, N. Y.</i>	Δ Υ House.
† George Harvey Bickley, Jr.,	<i>Singapore, Malaysia.</i>	Δ T Δ House.
§ Robert Fortenbaugh Bowman,	<i>Philadelphia, Pa.</i>	Ψ Υ House.
† Radcliffe Wright Bristol,	<i>Meriden.</i>	Δ T Δ House.
† Maurice Lester Burrows,	<i>New York, N. Y.</i>	X Ψ Lodge.
Robert William Butler,	<i>Methuen, Mass.</i>	Δ T Δ House.
Ernest Wilfred Bysshe, Jr.,	<i>Paris, France.</i>	28 N. D.
† Thomas William Cantwell, Jr.,	<i>Albany, N. Y.</i>	36 N. D.
† Henry Lloyd Churchill,	<i>White Plains, N. Y.</i>	29 N. D.
§ Seymour Lane Cone,	<i>Bound Brook, N. J.</i>	B Θ Π House.
Edwin Arthur Cranston, Jr.,	<i>Pittsfield, Mass.</i>	Foss House.
† Donald Hendrick Culver,	<i>Chicopee Falls, Mass.</i>	A X P House.
Frank Slade Danzoll,	<i>Vineland, N. J.</i>	Berkeley Div. School.
† Henry Shenk Davis,	<i>Erie, Pa.</i>	B Θ Π House.
* Malvin Edward Davis,	<i>Noxen, Pa.</i>	
§ William Leon Day,	<i>Colchester.</i>	17 O. H.
† Curtis Hazen Deming,	<i>White Plains, N. Y.</i>	Δ T Δ House.
† William Raymond Donnell,	<i>Asheville, N. C.</i>	Eclectic House.
† Miles Reisner Fasnacht,	<i>Lititz, Pa.</i>	C C House.
† Victor Leonard Fox,	<i>Port Monmouth, N. J.</i>	Σ N House.
§ Alfred Kepner Fricke,	<i>Swarthmore, Pa.</i>	Ψ Υ House.
§ Franklin Pierce Frye,	<i>Enfield, N. H.</i>	C C House.
† Theodore Fredric Goldthorpe,	<i>Somersville.</i>	C C House.
† Everett Wallace Graham,	<i>Springfield, Mass.</i>	Γ Ψ House.
† John Edward Gran,	<i>West Wareham, Mass.</i>	27 N. C.
† Claude Robert Halford,	<i>Pittsfield, Mass.</i>	X Ψ Lodge.
† Samuel Jerome Hardy, Jr.,	<i>Evanston, Ill.</i>	B Θ Π House.
Richard Pearson Hatfield,	<i>Scotch Plains, N. J.</i>	Δ Υ House.

\* On leave of absence for the year.

NAMES.	RESIDENCES.	ROOMS.
Warren Clark Heidel,	<i>Middletown.</i>	† Y House.
Edward Barton Hills,	<i>Mill Hall, Pa.</i>	5 N. D.
Lawrence Britton Hillyer,	<i>New York, N. Y.</i>	<i>Eclectic House.</i>
Everett James Holley,	<i>Portland.</i>	<i>Portland.</i>
Ernest Edward Howarth,	<i>Guilford.</i>	<i>C C House.</i>
† William Wendell Hunting,	<i>Albany, N. Y.</i>	Δ K E House.
George Albert Hurley,	<i>New York, N. Y.</i>	B Θ Π House.
† Mylon Cecil Jacobs,	<i>Auburn, Me.</i>	Δ T Δ House.
Henry Johnson James,	<i>Provincetown, Mass.</i>	53 N. C.
* John Joseph Jennings, Jr.,	<i>Newark, N. J.</i>	
† William Theodore Johnson,	<i>Middletown.</i>	69 Home Ave.
† Charles Augustine Kellogg,	<i>Hudson Falls, N. Y.</i>	† Y House.
† William Henry Kelly, Jr.,	<i>Albany, N. Y.</i>	Δ Δ Φ House.
§ Charles Wesley Ketter,	<i>Westwood, N. J.</i>	Δ T Δ House.
* Landrum Milton Knight,	<i>Lewiston, Me.</i>	
Edwin Blackwell Knowles, Jr.,	<i>Lancaster, Pa.</i>	† Y House.
Leland Ellsworth LaGanke,	<i>Cleveland, Ohio.</i>	Δ Δ Φ House.
Charles McLane Lester,	<i>Montclair, N. J.</i>	<i>Eclectic House.</i>
† Frederick Earle Lord, Jr.,	<i>Warehouse Point.</i>	<i>C C House.</i>
John Hendy Maddaford,	<i>Honesdale, Pa.</i>	B Θ Π House.
Paul Marcus,	<i>New Rochelle, N. Y.</i>	46 N. C.
† Richard Barnett Maxwell,	<i>Winona, Minn.</i>	† Y House.
Waldo Burnett Miller,	<i>Swarthmore, Pa.</i>	Δ Y House.
Allison Hoyt Mitchell,	<i>Taunton, Mass.</i>	Δ X P House.
Francis Keiter Moll,	<i>Pottsville, Pa.</i>	Σ N House.
§ George Washington More, Jr.,	<i>Ridgewood, N. J.</i>	29 N. D.
† Hugh Isidore Nanton,	<i>Bocas del Toro, Panama.</i>	11 O. H.
† Charles Francis Nettleship, Jr.,	<i>Newark, N. J.</i>	Σ N House.
Ernest Dressel North, 2nd,	<i>Upper Montclair, N. J.</i>	Δ Y House.
† Carl Walter Olson,	<i>Elmsford, N. Y.</i>	Δ K E House.
† Floyd Clark Rule,	<i>Meriden.</i>	Σ N House.
Charles Avery Sanford,	<i>Hadlyme.</i>	Δ X P House.
† Rexford Nichols Saxton,	<i>Uxbridge, Mass.</i>	46 N. C.
Donald French Smith,	<i>York Village, Me.</i>	Γ † House.
§ Monroe William Smith,	<i>S. Glens Falls, N. Y.</i>	<i>Faculty Club.</i>
† Julian Kingsley Stevens,	<i>West Hartford.</i>	27 N. C.

\* On leave of absence for the year.

NAMES.	RESIDENCES.	ROOMS.
† Philip John Stomberg,	<i>Middletown.</i>	275 <i>William St.</i>
Francis Cowles Strickland,	<i>Manchester.</i>	30 N. C.
† Donald Balch Summers,	<i>Maplewood, N. J.</i>	Σ N House.
† Zenas Monroe Sykes,	<i>Glen Ridge, N. J.</i>	Σ N House.
Rollin Tarleton,	<i>Nutley, N. J.</i>	Δ K E House.
† Harold Eben Terry,	<i>Waterbury.</i>	A X P House.
Evan Russell Thomas,	<i>Brockton, Mass.</i>	B Θ Π House.
George Ross Thomas,	<i>Royersford, Pa.</i>	Δ T Δ House.
† John Cranwill Thompson,	<i>Greenwich.</i>	Ψ Υ House.
Samuel Herbert Turkington,	<i>Three Rivers, Mass.</i>	9 N. D.
§ Marshall Lodge Umpleby,	<i>Uxbridge, Mass.</i>	C C House.
† Mead Walworth,	<i>New York, N. Y.</i>	Σ N House.
Cutler DeLong West,	<i>Glens Falls, N. Y.</i>	X Ψ Lodge.
† Clarence Oliver Wheeler,	<i>Hammondsport, N. Y.</i>	C C House.
Francis Daniel Wiener,	<i>New York, N. Y.</i>	Eclectic House.
Edwin Whitmore Wilkinson,	<i>Brooklyn, N. Y.</i>	Δ Υ House.
† William Watson Woodford,	<i>Hartford.</i>	B Θ Π House.
† Robert Harold Wrubel,	<i>Middletown.</i>	21 <i>Pearl St.</i>
§ Tatsuzo Yamagata,	<i>Tokyo, Japan.</i>	3 O. H.

## JUNIORS—CLASS OF 1925.

NAMES.	RESIDENCES.	ROOMS.
§ George Selleck Avery,	<i>Claverack, N. Y.</i>	A, N. D.
John Clarke Barber,	<i>New York, N. Y.</i>	C C House.
Leonard Brothwell Beach,	<i>Elmhurst, N. Y.</i>	Eclectic House.
† James Randolph Beard, Jr.,	<i>Brooklyn, N. Y.</i>	Σ N House.
Robert Powel Bedell,	<i>Floral Park, N. Y.</i>	Γ ♣ House.
§ Stephen Berrien,	<i>Upper Montclair, N. J.</i>	Eclectic House.
Albert Cooke Bill, Jr.,	<i>Hartford.</i>	28 N. D.
† John Althaus Bliss,	<i>Brooklyn, N. Y.</i>	Σ N House.
† George Mosher Bramann,	<i>Bridgeport.</i>	A X P House.
† Arthur Watson Bromage,	<i>Warehouse Point.</i>	C C House.
Lynn Harry Brown,	<i>Sayre, Pa.</i>	26 Wall St.
† Charles Wesley Burns, Jr.,	<i>Helena, Mont.</i>	Eclectic House.
Norman Carpenter,	<i>Germanstown, Pa.</i>	Δ T Δ House.
Ralph William Carr,	<i>Brooklyn, N. Y.</i>	Δ Y House.
† Walter Barney Chadwick,	<i>Newton Upper Falls, Mass.</i>	Δ Y House.
† Harlan Way Clifton,	<i>Montclair, N. J.</i>	Δ T Δ House.
Frank Theodore Cloak,	<i>Philadelphia, Pa.</i>	C C House.
Churchill Ransom Coe,	<i>Kingston, N. Y.</i>	Δ Y House.
§ Howard Houghton Cutting,	<i>Rockland, Mass.</i>	142 High St.
Stanley Irvin Davenport, Jr.,	<i>Plymouth, Pa.</i>	B Θ Π House.
† Clifton Harling Day,	<i>Melrose, Mass.</i>	Δ T Δ House.
† James Henry Denman,	<i>Canaan, N. Y.</i>	Γ ♣ House.
Donald Morgan Doughty,	<i>Roslyn Heights, N. Y.</i>	26 N. C.
† Dudley Gorton Downing,	<i>Gloversville, N. Y.</i>	Σ N House.
† Herbert Daniel Drewes,	<i>Mamaroneck, N. Y.</i>	Σ N House.
† Wallace Earl Drummond,	<i>Forest Hills, N. Y.</i>	Δ T Δ House.
† Henry Benjamin Duncan,	<i>Monrovia, Liberia, W. Africa.</i>	11 O. H.
Theodore Beitel Dunn,	<i>Hackensack, N. J.</i>	33 N. D.
Julian Webb Edgcomb,	<i>Syracuse, N. Y.</i>	Δ K E House.
† George Washington Emerson,	<i>East Orange, N. J.</i>	B Θ Π House.
† Clifford Stuart Ensinger,	<i>New Rochelle, N. Y.</i>	Δ K E House.
† Earl William Flosdorf,	<i>Philadelphia, Pa.</i>	C C House.
Donald Welch Fowler,	<i>Lebanon, N. H.</i>	Δ T Δ House.
§ Everett Leon Francis,	<i>Middletown.</i>	50 S. Main St.

NAMES.	RESIDENCES.	ROOMS.
Richard Whitfield Freure,	<i>Brooklyn, N. Y.</i>	39 N. C.
† Henry Gallien, Jr.,	<i>Albany, N. Y.</i>	† Y House.
Jesse Charles Gearhart,	<i>Millerstown, Pa.</i>	A X P House.
Clarence McLean Gifford,	<i>Utica, N. Y.</i>	Eclectic House.
§ Austin West Gridley,	<i>Springfield, N. J.</i>	B Θ Π House.
Harold William Griffis,	<i>Gloversville, N. Y.</i>	Σ N House.
Ernest Hawkins,	<i>Brook Haven, N. Y.</i>	C C House.
Kenneth Miller Hill,	<i>Noank.</i>	C C House.
† Roswell Frederick Hinkelman,	<i>Waterbury.</i>	67 N. C.
§ Raleigh Adams Holden,	<i>West Roxbury, Mass.</i>	Γ † House.
† Irvil Nathaniel Howard,	<i>Springfield, Mass.</i>	C C House.
Frederick George Hubach,	<i>Leonia, N. J.</i>	40 N. C.
† Floyd Marshall Ineson,	<i>Waterbury.</i>	67 N. C.
Edward Alfred Jacobson,	<i>Ossining, N. Y.</i>	Σ N House.
Carl Valdemar Johnson,	<i>Portland. 285 Main St., Portland.</i>	
Dayton Lewis Jones,	<i>Saratoga Springs, N. Y.</i>	C C House.
† Ralph William Jones,	<i>Saratoga Springs, N. Y.</i>	5 N. D.
§ Hermann Hans Kind,	<i>New York, N. Y.</i>	X † Lodge.
† Harvey Andrew Kuntzelman,	<i>Williamstown, Pa.</i>	C C House.
† Donald William Leonard,	<i>Newtonville, Mass.</i>	5 N. D.
† Robert Edwin Leonard,	<i>East Orange, N. J.</i>	A Δ † House.
† Reuben Harold Lockhart,	<i>Bridgeport.</i>	A Δ † House.
§ Joseph Rippel Lockwood,	<i>Greenwich.</i>	Δ T Δ House.
Raymond Harvey Lounsbury,	<i>Tioga Center, N. Y.</i>	Cromwell.
† Warren Lozier,	<i>Newark, N. J.</i>	Δ T Δ House.
§ Theodore Cushing Lyman,	<i>Upper Montclair, N. J.</i>	Eclectic House.
† Arthur McDonald,	<i>Middletown. 343 Washington St.</i>	
† Ernest Barton McLane,	<i>Cromwell.</i>	X † Lodge.
† Thomas Norman Machemer,	<i>Royersford, Pa.</i>	A X P House.
Spencer Barrett Meredith,	<i>Hartford.</i>	Δ T Δ House.
Samuel Marvin Middlebrook,	<i>Wilton.</i>	67 N. C.
† John Porter Mills,	<i>Brooklyn, N. Y.</i>	Σ N House.
Charles Robert Mingsins,	<i>Methuen, Mass.</i>	C C House.
† Joseph Theodore Mirtl,	<i>West Willington.</i>	† Y House.
§ Harold Moss,	<i>Bridgeport.</i>	A X P House.
Zenas Franklin Neumeister,	<i>Dallon, Mass.</i>	C C House.
† Morris Delfield Nordstrom,	<i>New Britain.</i>	Δ Y House.
† Willis Durell Northrup,	<i>Carmel, N. Y.</i>	9 N. D.

NAMES.	RESIDENCES.	ROOMS.
John Oddy,	<i>Skowhegan, Me.</i>	<i>25 College Place.</i>
Aaron Joseph Palmer,	<i>Middletown.</i>	<i>183 Main St., S. Farms.</i>
† Merrill Reeves Patterson,	<i>Albany, N. Y.</i>	<i>Δ K E House.</i>
† William James Pilat,	<i>New York, N. Y.</i>	<i>Σ N House.</i>
Morris Poliner,	<i>Middletown.</i>	<i>546 Main St.</i>
† George Forbes Porter,	<i>Barre, Mass.</i>	<i>A X P House.</i>
Paul Arthur Reynolds,	<i>Newton, Iowa.</i>	<i>B Θ Π House.</i>
† William Ashton Roberts,	<i>Newark, N. J.</i>	<i>Ψ Υ House.</i>
† Walter Stanton Root,	<i>Mt. Vernon, N. Y.</i>	<i>Γ Ψ House.</i>
† Harold Sanderson,	<i>North Abington, Mass.</i>	<i>Δ Υ House.</i>
† Merritt Pardee Sarles,	<i>Mt. Kisco, N. Y.</i>	<i>36 N. D.</i>
§ Howard Alvin Schweiker,	<i>Albany, N. Y.</i>	<i>Δ K E House.</i>
† Edwin Palmer Scriggins,	<i>East Orange, N. J.</i>	<i>B Θ Π House.</i>
Franklin Adolph Seiler,	<i>New York, N. Y.</i>	<i>B Θ Π House.</i>
George Anderson Shipman,	<i>Saratoga Springs, N. Y.</i>	<i>Σ N House.</i>
§ John Stauley Sills,	<i>Dixfield, Me.</i>	<i>91 N. C.</i>
§ Henry Davis Silverman, Jr.,	<i>Mt. Sinai, N. Y.</i>	<i>X Ψ Lodge.</i>
† Max Louis Slutzky,	<i>Middletown.</i>	<i>184 Prospect St.</i>
† Calvin Sidney Smith,	<i>Middletown.</i>	<i>51 Park Place.</i>
Standish Oscar Smith,	<i>N. Philadelphia, Pa.</i>	<i>Ψ Υ House.</i>
† Malcolm Drake Spinning,	<i>Bloomfield, N. J.</i>	<i>A X P House.</i>
§ Henry Graham Statham,	<i>Rulland, Vt.</i>	<i>35 N. C.</i>
† Theodore Roosevelt Studwell,	<i>Brooklyn, N. Y.</i>	<i>Δ T Δ House.</i>
§ Thomas Ross Sutton,	<i>Prattsville, N. Y.</i>	<i>Δ Υ House.</i>
Joseph Raymond Swain,	<i>Ossining, N. Y.</i>	<i>A Δ Φ House.</i>
Arthur Carlyle Talmadge,	<i>Springfield, Mass.</i>	<i>Eclectic House.</i>
Frederick Chynoweth Thomas, Jr.,	<i>Royersford, Pa.</i>	<i>Δ T Δ House.</i>
Rupert Willis Thorpe,	<i>Hoosick Falls, N. Y.</i>	<i>Δ K E House.</i>
John Hawthorne Van Surdam,	<i>Hoosick Falls, N. Y.</i>	<i>Δ K E House.</i>
James Joseph Walsh,	<i>Meriden. 375 Center St., Meriden.</i>	
Allyn Andrews Walters,	<i>Binghamton, N. Y.</i>	<i>C C House.</i>
§ John Cecil Rushworth Whiteley,	<i>Philadelphia, Pa.</i>	<i>Ψ Υ House.</i>
Trevor Brewster Yates,	<i>Philadelphia, Pa.</i>	<i>A X P House.</i>

## SOPHOMORES—CLASS OF 1926.

NAMES.	RESIDENCES.	ROOMS.
§ George Ezra Andrews,	<i>Rocky Hill.</i>	<i>Rocky Hill.</i>
† N. Vaughn Ballou,	<i>Providence, R. I.</i>	<i>17 Broad St.</i>
† Avery Wells Barnes,	<i>Clinton.</i>	C, N. D.
† Duane Clayton Barnes,	<i>Richford, Vt.</i>	18 O. H.
Daniel Nichols Beers,	<i>Bridgeport.</i>	Δ K E House.
† George Huntington Blackett,	<i>Newton, Mass.</i>	34 N. D.
Edward Brown Bosworth,	<i>Barre, Vt.</i>	44 N. D.
Robert Methuen Boyd,	<i>Upper Montclair, N. J.</i>	<i>Eclectic House.</i>
§ Harry Burdette Bradbury,	<i>New Britain.</i>	52 N. D.
Williston Loggie Bradway,	<i>Monson, Mass.</i>	A X P House.
Harold Roy Brennan,	<i>Chelsea, Mass.</i>	44 N. C.
George Milton Brodhead, Jr.,	<i>Philadelphia, Pa.</i>	Ψ Υ House.
Richard Albert Edward Brooks,	<i>Karachi, India.</i>	44 N. D.
† Robert Romano Ravi Brooks,	<i>Elkton, Ky.</i>	<i>Faculty Club.</i>
Edward Douglass Burdick,	<i>Hackensack, N. J.</i>	6 N. D.
Harold Godfrey Carlson,	<i>Middletown. 105 High St.,</i>	<i>Farm Hill.</i>
† Raymond Cushman Clinchy,	<i>Yonkers, N. Y.</i>	A Δ Φ House.
George Pillsbury Cofran,	<i>Suncook, N. H.</i>	6 N. D.
† Ethan Theodore Colton, Jr.,	<i>Upper Montclair, N. J.</i>	B Θ Π House.
§ Howard Coonley, Jr.,	<i>Boston, Mass.</i>	Ψ Υ House.
† Franklin Dexter Crosby,	<i>Danielson.</i>	A X P House.
§ Wade Wendton Dauch,	<i>Sandusky, O.</i>	Ψ Υ House.
† Louis DeAngelis,	<i>New Haven.</i>	22 N. D.
† Myron Bradford Diggin,	<i>Malawan, N. J.</i>	82 N. C.
Paul Franklin Douglass,	<i>Troy, N. Y.</i>	X Ψ Lodge.
† Eugene John Dowling,	<i>Middletown.</i>	<i>Staddle Hill.</i>
§ Paul Farrand DuBois,	<i>Bremen, Germany.</i>	Ψ Υ House.
William Warren Dunn,	<i>Gardner, Mass.</i>	<i>Eclectic House.</i>
† Forest Porter Eastman,	<i>New York, N. Y.</i>	10 N. D.
† Harold Brodhead Flagler,	<i>Stroudsburg, Pa.</i>	53 N. C.
† Davis Forrest Foljambe,	<i>Los Angeles, Cal.</i>	Δ K E House.
§ Arthur Groht Follmer,	<i>Tenafly, N. J.</i>	33 N. D.
† Howell Dunning Freeman,	<i>Hartford.</i>	Σ N House.
† Berlin Carson French,	<i>Meriden.</i>	16 O. H.

NAMES.	RESIDENCES.	ROOMS.
Lincoln Everett Frye,	<i>Lawrence, Mass.</i>	44 N. C.
† Philip Lyle Gamble,	<i>Providence, R. I.</i>	35 N. D.
Edwin Humes Garber,	<i>Philadelphia, Pa.</i>	58 N. C.
† Robert Ross Habberley,	<i>Melrose, Mass.</i>	B Θ Π House.
† James Albert Hendley,	<i>Middletown. Wall St., So. Farms.</i>	
† Herbert Hendrickson,	<i>Babylon, N. Y.</i>	50 N. D.
† Harrison Sherwin Henry,	<i>Mt. Vernon, N. Y.</i>	Δ K E House.
† Roland Wood Hess,	<i>Utica, N. Y.</i>	8 N. D.
Gordon Green Hill,	<i>Poona, India.</i>	44 N. D.
† Bennethum Strong Hillegas,	<i>Harrisburg, Pa. 145 Mt. Vernon St.</i>	
† George Byron Hogaboom, Jr.,	<i>New Britain.</i>	C C House.
† George Dean Horr,	<i>Needham, Mass.</i>	77 N. C.
† Leslie Enders Houck,	<i>Gloversville, N. Y.</i>	71 N. C.
§ Harold Amasa Howard,	<i>Wethersfield.</i>	23 N. C.
† Hamilton Colby Hoyt,	<i>Monticello, N. Y.</i>	Δ T Δ House.
Martin Stewart Huey,	<i>Waterbury.</i>	Γ ♣ House.
§ George Vreeland Johnson,	<i>Brooklyn, N. Y.</i>	42 N. C.
Robert Jordan,	<i>Cape Elizabeth, Me.</i>	77 N. C.
Willard Velsor Kaylor,	<i>Cold Spring Harbor, N. Y.</i>	50 N. D.
† Frederick Christian Koch, Jr.,	<i>Brooklyn, N. Y.</i>	Σ N House.
† Franklin Thorndike Kurt,	<i>West Newton, Mass.</i>	10 N. D.
† Frank Wesley Lane,	<i>Kent's Hill, Me.</i>	18 N. C.
§ John Davis Leland,	<i>Brookline, Mass.</i>	X ♣ Lodge.
§ James Eveland Lemmerz,	<i>Jersey City, N. J.</i>	B Θ Π House.
§ John Russell Little,	<i>New York, N. Y.</i>	B Θ Π House.
Horace Jackson Littlefield,	<i>Lynn, Mass.</i>	Eclectic House.
† Andrew Longacre,	<i>Yonkers, N. Y.</i>	Eclectic House.
† Elmer William Lonsdale,	<i>South Orange, N. J.</i>	Δ T Δ House.
Leigh Melvin Lott,	<i>Meshoppen, Pa.</i>	Γ ♣ House.
† James Kenneth Loughry,	<i>Brooklyn, N. Y.</i>	35 N. D.
† Elmore Brown Lyford,	<i>Bridgeport.</i>	A X P House.
§ Hector Hitchings Lyman,	<i>Upper Montclair, N. J.</i>	Eclectic House.
† Rowland Howenstein McAdoo,	<i>Fairmont, W. Va.</i>	51 N. D.
Paul Simpson McElroy,	<i>Chicopee Falls, Mass.</i>	85 N. C.
Edward Wilbur Manchester,	<i>Winsted.</i>	Δ T Δ House.
† John LeFoy Manning,	<i>East Orange, N. J.</i>	Δ T Δ House.
† John Walker Maroney,	<i>Hartford.</i>	34 N. D.
Daniel John Marston,	<i>Yakima, Wash.</i>	19 N. C.



NAMES.	RESIDENCES.	ROOMS.
§ William Stanley Martin,	<i>Greenwich.</i>	73 N. C.
Evert Lee Mason,	<i>Whitney Point, N. Y. 116 Mt. Vernon St.</i>	
Williams McLean Mitchell,	<i>Portland.</i>	<i>Portland.</i>
Maurice Frank Montgomery,	<i>Kimberton, Pa.</i>	86 N. C.
† John Albert Morrow,	<i>West Pawlet, Vt.</i>	Σ N House.
† William Schroeder Neebe,	<i>Meriden. 81 Parker Ave., Meriden.</i>	
† Martin Herman Nelson,	<i>South Orange, N. J. Faculty Club.</i>	
† Philip Lawrence Nichols,	<i>Saratoga Springs, N. Y. X ♯ Lodge.</i>	
† Allyn Palmer Niles,	<i>Otego, N. Y. X ♯ Lodge.</i>	
† Lyman Emerson Nivling,	<i>Newton Center, Mass.</i>	12 N. D.
† Norman Norton,	<i>Mount Hermon, Mass.</i>	2 O. H.
Everton Harry Parkinson,	<i>Lawrence, Mass.</i>	2 O. H.
§ Earl Kenneth Peckham,	<i>Troy, N. Y.</i>	13 O. H.
Wendell West Phillips,	<i>Germanstown, Pa.</i>	Δ T Δ House.
† Arthur Nichols Piper,	<i>Hackensack, N. J.</i>	A X P House.
Gordon Alvord Piper,	<i>Stamford.</i>	♀ Y House.
† Harold Frederick Plaisted,	<i>Glens Falls, N. Y.</i>	X ♯ Lodge.
† Malcolm Emery Potter,	<i>Glens Falls, N. Y.</i>	♀ Y House.
† Jesse Russell Radford,	<i>Greenwich.</i>	Δ T Δ House.
† William Frederick Ranscht,	<i>White Plains, N. Y.</i>	Δ T Δ House.
§ Spencer Ward Reeder,	<i>Elyria, O.</i>	19 N. C.
† Robert Irving Reynolds,	<i>Petersburg, N. Y.</i>	Δ K E House.
Howard Leonard Rich,	<i>Newton, Mass.</i>	12 N. D.
Herbert Montague Richards,	<i>Honolulu, T. H.</i>	♀ Y House.
† Raymond Stewart Riday,	<i>Germanstown, Pa.</i>	♀ Y House.
† Franklin French Robinson,	<i>Hampton, Ia.</i>	X ♯ Lodge.
† Warren Mason Schwegel,	<i>New York, N. Y.</i>	C, N. D.
† Philip Boies Sharpe,	<i>Greenwich, N. Y.</i>	A Δ ♢ House.
George Edgar Shattuck,	<i>Norristown, Pa.</i>	15 N. C.
Connie Clinton Simmons,	<i>Canandaigua, N. Y.</i>	16 N. C.
Albert Scott Smith,	<i>Middletown.</i>	50 Hamlin St.
† Robert John Starr,	<i>East Hampton.</i>	A Δ ♢ House.
Albert Edgar Stephan,	<i>Washington, D. C.</i>	A Δ ♢ House.
† Charles Drinkwater Storer,	<i>Richmond Hill, N. Y.</i>	C, N. D.
† John Stothers,	<i>New York, N. Y.</i>	26 N. C.
§ Lewis Gordon Thompson,	<i>Greenwich.</i>	♀ Y House.
† Edward Moulton Thorndike,	<i>New York, N. Y.</i>	8 N. D.
† John Butler Tompkins,	<i>East Orange, N. J.</i>	A Δ ♢ House.

NAMES.	RESIDENCES.	ROOMS.
Edward Arthur Tyler,	<i>Bridgeport.</i>	D, N. D.
Arthur Burton Umpleby,	<i>Uxbridge, Mass.</i>	C C House.
† Charles Proctor Underwood,	<i>Brooklyn, N. Y.</i>	X † Lodge.
Donald Orville Weatherbee,	<i>Edgewood, R. I.</i>	Γ † House.
§ Holly Scofield Weed,	<i>White Plains, N. Y.</i>	Δ T Δ House.
§ Travis DeShon Wells,	<i>Rutherford, N. J.</i>	A Δ Φ House.
Philip Henry Wheeler,	<i>Brattleboro, Vt.</i>	71 N. C.
§ Joseph Whetstone,	<i>Wayne, Pa.</i>	52 N. D.
† Ralph Gerald White,	<i>Saratoga Springs, N. Y.</i>	Σ N House.
§ Grant Townsend Wickwire,	<i>Berlin.</i>	Berlin.
Jerome Kear Wilcox,	<i>Wilkes-Barre, Pa.</i>	71 N. C.
† Marion Tower Wilmot,	<i>Bridgeport.</i>	‡ Y House.
John Benjamin Wollman,	<i>Unionville.</i>	C C House.
Ernest Franklin Woolston,	<i>Ocean Grove, N. J.</i>	A Δ Φ House.
Elias Paul Wrubel,	<i>Middletown.</i>	21 Pearl St.

## FRESHMEN—CLASS OF 1927.

NAMES	RESIDENCES.	ROOMS.
Everett Clayton Abbe,	<i>Hartford.</i>	1 O. H.
Kenneth Gorton Abbott,	<i>Pittsfield, Mass.</i>	9 N. C.
† Charles Wilbur Acklin,	<i>Waynesburg, Pa.</i>	43 N. D.
† Winslow Heath Adams,	<i>Springfield, Mass.</i>	2 N. D.
Milton Alex,	<i>Wallingford.</i>	86 N. C.
§ George Clifford Astarita,	<i>New York, N. Y.</i>	2 N. D.
† George Freeman Atwood,	<i>Allston, Mass.</i>	6 O. H.
† Oliver Luther Austin, Jr.,	<i>Tuckahoe, N. Y.</i>	<i>Eclectic House.</i>
† Theodore Haddon Ball,	<i>Ridgewood, N. J.</i>	11 N. D.
† James Johnston Bancker,	<i>Basking Ridge, N. J.</i>	B Θ Π House.
§ Damon Barnes,	<i>Fairlee, Vt.</i>	69 N. C.
† Ralph Urwin Barnes,	<i>Thomaston.</i>	12 O. H.
Laurence Barrington,	<i>New York, N. Y.</i>	38 N. C.
§ Will Campbell Beach,	<i>New York, N. Y.</i>	A Δ Φ House.
† David Harry Beebe,	<i>Fullton, N. Y.</i>	3 N. D.
† Ellsworth Roscoe Beeman,	<i>Albany, N. Y.</i>	54 N. D.
§ Winton Jay Bennett,	<i>Fullton, N. Y.</i>	60 Home Ave.
James Russell Bickford,	<i>Northwood Narrows, N. H.</i>	6 N. D.
† Ernest St. Clair Bijou,	<i>Brooklyn, N. Y.</i>	142 High St.
† Ralph Frederic Bischoff,	<i>Newton, Mass.</i>	88 N. C.
† George Henry Blakeslee, Jr.,	<i>Albany, N. Y.</i>	47 N. C.
§ Thomas Volney Boardman,	<i>Washington, D. C.</i>	51 N. D.
† Louis King Bragaw,	<i>South Orange, N. J.</i>	13 N. D.
§ Elwood Wayne Brant,	<i>Madison, N. J.</i>	48 N. C.
§ Harold Gates Breeze,	<i>Albany, N. Y.</i>	142 High St.
† Stephen Allen Bridge,	<i>Hazardville.</i>	56 N. C.
† Thomas Henry Briggs, Jr.,	<i>Yonkers, N. Y.</i>	30 N. D.
William Fausset Bruce,	<i>North Attleboro, Mass.</i>	24 N. C.
† Arnold Brugger,	<i>Mt. Kisco, N. Y.</i>	15 O. H.
§ James Edward Bryan,	<i>Asbury Park, N. J.</i>	2 N. D.
† Archie Wright Budd,	<i>Philadelphia, Pa.</i>	29 N. C.
† Theodore Stedman Burr,	<i>Stamford.</i>	16 N. D.
† Chester Platt Byrne,	<i>Astoria, N. Y.</i>	Δ K E House.
† Hilton Thomas Carmichael,	<i>New Haven.</i>	15 N. D.
† Leverett Ernest Carter,	<i>Clinton.</i>	31 N. D.
† Joseph Geldo Cerina,	<i>New York, N. Y.</i>	17 Broad St.

NAMES.	RESIDENCES.	ROOMS.
† John Frederick Chester,	<i>Washington, D. C.</i>	48 N. D.
† Thomas McDonald Childress,	<i>Washington, D. C.</i>	48 N. D.
† Henry Gwinnell Coit,	<i>Newark, N. J.</i>	41 N. C.
John Mortimer Collins,	<i>Lynn, Mass.</i>	41 N. D.
§ Thomas Brownell Comstock,	<i>New York, N. Y.</i>	42 N. D.
§ Charles Earl Congdon,	<i>Gowanda, N. Y.</i>	220 College St.
† John Langdon Cook,	<i>Mt. Holly, Vt.</i>	54 N. C.
§ Clarence Lee Cooper,	<i>New York, N. Y.</i>	15 N. D.
† William Henry Cranford,	<i>Washington, D. C.</i>	48 N. D.
† Palmer Alexander Crowell,	<i>East Orange, N. J.</i>	<i>Eclectic House.</i>
† John Carpenter Dabney,	<i>Cambridge, Mass.</i>	81 N. C.
† Albert Joseph Dalton,	<i>New London.</i>	22 N. C.
Andrew John Darling, Trumansburg,	<i>N. Y. Middletown Y. M. C. A.</i>	
† David Magie Day,	<i>Greenwich.</i>	31 N. C.
Harold Vincent Denniston,	<i>Middletown, N. Y.</i>	98 N. C.
† Henry Nelson DeWick,	<i>West Haven.</i>	54 N. C.
† Ashley DeWolf,	<i>New York, N. Y.</i>	24 N. D.
§ Matthew Winfred Dogan,	<i>Marshall, Texas.</i>	11 O. H.
Ross Nelson Dougherty,	<i>Brooklyn, N. Y.</i>	† Y House.
† Frank Seaverns Dowling,	<i>Albany, N. Y.</i>	A, N. D.
Robert Secrest Dunham,	<i>New York, N. Y.</i>	30 N. D.
§ Harry Norman Eggleston,	<i>Matawan, N. J.</i>	51 N. C.
† Edgar Yuwen Engelman,	<i>Noxen, Pa.</i>	27 N. D.
Howard Wilson Fairchild,	<i>Stratford.</i>	46 N. D.
§ Bernard Francis Farnham,	<i>New London.</i>	255 William St.
† George Elbert Farrar, Jr.,	<i>Watertown.</i>	5 N. C.
§ George Nelson Findlater, Jr.,	<i>Waterliet, N. Y.</i>	142 High St.
§ Maurice Fredrick Fisher,	<i>Muncie, Ind.</i>	36 N. C.
† Robert Tyson Fitzhugh,	<i>Westminster, Md.</i>	41 N. D.
§ Justus Enoch Flygare,	<i>New York, N. Y.</i>	Δ K E House.
† Eben Maxwell Foskett,	<i>Northport, N. Y.</i>	B, N. D.
† Joseph Boies Fuller,	<i>Montclair, N. J.</i>	<i>Eclectic House.</i>
† Addison Gurnee Gallien,	<i>Upper Montclair, N. J.</i>	25 N. D.
§ Raymond Edward Garrison,	<i>Pittston, Pa.</i>	95 N. C.
Joseph Francis Glynn,	<i>Ridgewood, N. J.</i>	26 N. D.
George Bauchop Gordon,	<i>East Northfield, Mass.</i>	14 N. D.
† Henry Williams Gould,	<i>Jersey City, N. J.</i>	56 N. D.
† Kenneth Burrows Grady,	<i>Binghamton, N. Y.</i>	33 N. C.

NAMES.	RESIDENCES.	ROOMS.
† Harvey Beecher Grani,	<i>Washington, D. C.</i>	51 N. D.
† Ernest Robert Granger,	<i>Mt. Vernon, N. Y.</i>	10 N. C.
† Ernest Allison Grant,	<i>Somerville, Mass.</i>	31 N. D.
Charles Edwin Green,	<i>Greenwich.</i>	65 N. C.
† Carl Fredrick Hakewessell,	<i>West Hartford.</i>	D, N. D.
§ Holman Henry Hall,	<i>So. Willington.</i>	† Y House.
† Sanford Louis Hammond,	<i>Brooklyn, N. Y.</i>	A Δ Φ House.
Chester William Hampel,	<i>Cohoes, N. Y.</i>	20 O. H.
Theodore Thomas Hampel,	<i>Cohoes, N. Y.</i>	20 O. H.
§ Karl Drew Hartzell,	<i>Wellesley, Mass.</i>	88 N. C.
† Anthony Moffatt Hauck, Jr.,	<i>Somerville, N. J.</i>	49 N. D.
† George Washington Hemphill,	<i>Philadelphia, Pa.</i>	10 N. C.
† James Hotchkiss Herrick,	<i>Grand Rapids, Mich.</i>	11 N. D.
§ Herbert Jacob Herrlich,	<i>New York, N. Y.</i>	13 N. D.
† John Joseph Hoey,	<i>Guilford.</i>	32 N. D.
Francis Wright Holden,	<i>Hartford.</i>	13 N. C.
† Paul Rockwell Holman,	<i>Leominster, Mass.</i>	68 Lawn Ave.
† Kenneth Booth Holmes,	<i>New London.</i>	20 N. C.
† Timothy E. Hopkins, 2nd,	<i>Worcester, Mass.</i>	142 High St.
Amos Benjamin Horlacher,	<i>Hazletton, Pa.</i>	32 N. C.
† Walter King Howe, Jr.,	<i>South Royalton, Vt.</i>	19 O. H.
† Edward Lorenzo Hubler,	<i>Gordon, Pa.</i>	53 N. D.
† Ellison Sidney Hulsizer, Jr.,	<i>Somerville, N. J.</i>	49 N. D.
† Robert Bruce Irwin,	<i>Cataumet, Mass.</i>	7 N. D.
§ Samuel Jackson, Jr.,	<i>New York, N. Y.</i>	B, N. D.
§ Vernon Earl Jackson,	<i>Asbury Park, N. J.</i>	2 N. D.
† Eldredge Richard Jacobson,	<i>Belleville, N. J.</i>	60 Home Ave.
Harry Jefferis,	<i>Newark, N. J.</i>	79 N. C.
† Merle Norton Jillson,	<i>Guilford.</i>	21 N. D.
† John Harold Kavanagh,	<i>Mt. Vernon, N. Y.</i>	16 N. D.
James Moore Kelly,	<i>Middletown.</i>	186 Cross St.
† Wilfred Arthur Kemp,	<i>Methuen, Mass.</i>	163 Liberty St.
† Maron Kennedy,	<i>Philadelphia, Pa.</i>	4 N. D.
§ George Beresford King,	<i>Brooklyn, N. Y.</i>	60 N. C.
§ Howard Amos Clarence King,	<i>West Chazy, N. Y.</i>	80 N. C.
† Leonard Owen Kirschner,	<i>New Haven.</i>	45 N. D.
William Charles Knef,	<i>Newark, N. J.</i>	4 N. D.
† Henry Calvin Kuhl,	<i>Jersey City, N. J.</i>	14 O. H.

NAMES.	RESIDENCES.	ROOMS.
§ Willard Carpenter Kynett,	<i>Philadelphia, Pa.</i>	† Y House.
§ Hugh Orvice LaBounty,	<i>Chicago, Ill.</i>	142 High St.
Samuel Gail Landon, Jr.,	<i>Harrisburg, Pa.</i>	24 N. D.
Abram Barnett Langdale,	<i>Brooklyn, N. Y.</i>	60 N. C.
Francis Eliot Larrabee,	<i>Waterville, Me.</i>	99 N. C.
Richard James Lea,	<i>Sandusky, O.</i>	29 N. C.
Edwyn Maynard Lewis,	<i>West Orange, N. J.</i>	89 N. C.
† Howard Strong Logan,	<i>Mt. Vernon, N. Y.</i>	10 N. C.
† Allan Cromwell Loper,	<i>Thomaston.</i>	12 O. H.
† Porter Davis Lord,	<i>Barre, Vt.</i>	22 N. D.
† Chauncey Hart Lowrey,	<i>Waterbury.</i>	13 O. H.
Adrian Francis McDonald,	<i>Portland.</i>	Portland.
§ John McDonough,	<i>Albany, N. Y.</i>	142 High St.
§ Richard Bernard MacFarland,	<i>Newton, Mass.</i>	13 N. D.
John Stewart McNeilly, Jr.,	<i>Upper Montclair, N. J.</i>	92 N. C.
Frederick MacNicol,	<i>Beacon, N. Y.</i>	59 N. C.
† Robert Shuter Macrum,	<i>Germantown, Pa.</i>	48 N. C.
† Edward Smith Magowan,	<i>Philadelphia, Pa.</i>	Δ K E House.
† Wesley Wooley Marple,	<i>Trenton, N. J.</i>	3 N. C.
William Edgar Martin, 2nd,	<i>Holyoke, Mass.</i>	208 College St.
Edmund David Mason,	<i>Orlando, Fla.</i>	36 N. C.
Herbert Gordon May,	<i>Fair Haven, Vt.</i>	Foss House.
§ Stuart Bartlett Mead,	<i>Saratoga Springs, N. Y.</i>	100 N. C.
§ Robert Dodge Merrill,	<i>New York, N. Y.</i>	43 N. D.
† Clarence Hilton Miller,	<i>Newburgh, N. Y.</i>	56 N. D.
† John Davis Mixsell,	<i>Bethlehem, Pa.</i>	104 Broad St.
† Lionel Vail Moore,	<i>Torrington.</i>	A X P House.
Sidney Ammon Morrill,	<i>Fulton, N. Y.</i>	3 N. D.
† John Cedric Morris,	<i>Poultney, Vt.</i>	33 N. C.
§ Byron Latimer Morrison,	<i>Hempstead, N. Y.</i>	B Θ Π House.
§ Thomas Donaldson Nary,	<i>Asbury Park, N. J.</i>	1 N. D.
† Jerald Barnum Newton,	<i>South Kent.</i>	83 N. C.
† Edward Norris,	<i>Melrose, Mass.</i>	50 N. C.
Richard North,	<i>Brooklyn, N. Y.</i>	26 N. D.
† Herbert Carl Northrup,	<i>Carmel, N. Y.</i>	9 N. D.
† William Arvid Olson,	<i>Derby.</i>	59 N. C.
§ John Charles O'Malley,	<i>East Orange, N. J.</i>	23 N. D.
§ William Weston Park,	<i>Elizabeth, N. J.</i>	X † Lodge.

NAMES.	RESIDENCES.	ROOMS.
Clinton Fred Parkinson,	<i>Lawrence, Mass.</i>	15 O. H.
† Frederick Barnard Parsons,	<i>Elizabeth, N. J.</i>	7 N. C.
George Henry Parsons, Jr.,	<i>Elizabeth, N. J.</i>	79 N. C.
† Gordon Shaler Partridge,	<i>Glens Falls, N. Y. Eclectic House.</i>	
§ Joseph Parker Perry,	<i>Boston, Mass.</i>	2 Miles Ave.
† Thomas Knappen Perry,	<i>Grand Rapids, Mich.</i>	101 N. C.
† Percy Mylchreest Phelps,	<i>Middletown.</i>	28 Brainerd Ave.
Lawrence Pierpont,	<i>Glens Falls, N. Y.</i>	22 Wyllys St.
George Lincoln Plimpton, Jr.,	<i>Tillon, N. H.</i>	55 N. D.
† Ralph Pomeroy,	<i>Stamford.</i>	† Y House.
† Harold Vinton Potter,	<i>Hamburg, N. Y.</i>	7 N. C.
† Ronald LaFayette Potter,	<i>Saratoga Sp'gs, N. Y.</i>	343 Washington St.
† David Press,	<i>Middletown.</i>	175 College St.
† Edgar Kenan Price,	<i>Port Chester, N. Y.</i>	52 N. D.
† Daniel Webster Prince,	<i>Millbrook, Mass.</i>	92 N. C.
† George Newton Ramage,	<i>West Orange, N. J.</i>	89 N. C.
Herbert Fitz Randolph, Jr.,	<i>Washington, D. C.</i>	45 N. D.
Theodore August Rath,	<i>Brooklyn, N. Y. Middletown Y. M. C. A.</i>	
George Robert Ream,	<i>Akron, O.</i>	21 N. D.
† Charles Reynolds,	<i>Newark, N. J.</i>	74 N. C.
† Robert Parkinson Ritchie,	<i>Ridgewood, N. J.</i>	5 N. C.
† Cleaveland Blanchard Robbins,	<i>Fair Haven, Vt.</i>	58 N. C.
† Martin Lewis Roth,	<i>Carleret, N. J.</i>	64 N. C.
† Richard Frederick Louis Roth,	<i>Mt. Vernon, N. Y.</i>	47 N. D.
Herman Elsesser Rudolph,	<i>Astoria, N. Y.</i>	† Y House.
§ Stanley Whitten Rusk, Jr.,	<i>Haddonfield, N. J.</i>	X † Lodge.
† Robert Edward Russell,	<i>Gorham, Me.</i>	55 N. D.
Marshall Webster Schacht,	<i>Brookline, Mass.</i>	7 N. D.
† Hubert Hart Schwerdtle,	<i>Bridgeport.</i>	46 N. D.
Delton Lewis Scudder,	<i>Burnside.</i>	21 N. C.
Floyd Randall Selleck,	<i>Lake George, N. Y.</i>	275 William St.
Leroy Edward Severance,	<i>Willsboro, N. Y.</i>	38 N. C.
§ Charles Wesley Sleeter,	<i>Meriden. 61 Church St., Meriden.</i>	
† Frederick Parmlee Sloat,	<i>Butler, N. J.</i>	17 O. H.
† Ralph Ernest Smith,	<i>Thomaston.</i>	12 O. H.
† Rhey Burrows Snodgrass,	<i>East Orange, N. J.</i>	A Δ † House.
† Murt Salisbury Soverel,	<i>East Orange, N. J.</i>	27 N. D.
§ Israel Spector,	<i>Philadelphia, Pa.</i>	4 N. C.

NAMES.	RESIDENCES.	ROOMS.
† Elwood Charles Stanley,	<i>Bridgeport.</i>	<i>142 High St.</i>
† Robert Hathaway Stanley,	<i>New Bedford, Mass.</i>	80 N. C.
† Kenneth Eaton Steele,	<i>Hartford.</i>	13 N. C.
Donald Thomas Stephenson,	<i>Plainfield, N. J.</i>	1 N. D.
Paul Brown Stover,	<i>Royersford, Pa.</i>	42 N. D.
Lester Lewis Strausser,	<i>Hamburg, Pa.</i>	14 O. H.
† Irving Morrison Strong,	<i>New York, N. Y.</i>	47 N. D.
† William Dorus Stubenbord,	<i>Jersey City, N. J.</i>	69 N. C.
† Lorain Brierley Sully,	<i>New Haven.</i>	69 N. C.
† Harry Alvey Thornbury, Jr.,	<i>Bridgeport.</i>	D, N. D.
§ Robert Edwards Thornhill,	<i>Sayville, N. Y.</i>	<i>142 High St.</i>
† James Wilbur Towson,	<i>White Plains, N. Y.</i>	14 N. D.
§ Raymond Welch Tunnell,	<i>Germantown, Pa.</i>	23 N. D.
† Judson Frederick Howe Turton,	<i>White Plains, N. Y.</i>	B Θ Π House.
† Wayne LeCount Tyson,	<i>Unadilla, N. Y.</i>	Δ T Δ House.
James Martin VanBuren,	<i>Hobart, N. Y.</i>	53 N. D.
§ Robert Louis VanHorsen,	<i>Mt. Vernon, N. Y.</i>	32 N. D.
† Lewis Adam Vincent,	<i>Oakland, Cal. 86 Main St., S. Farms.</i>	
Nicholas Emory Wagman,	<i>Saratoga Sp'gs, N. Y. 343 Washington St.</i>	
† David Conger Walden,	<i>New Haven.</i>	27 N. D.
† Stanley Thomas Warlow,	<i>Williamstown, Pa.</i>	B Θ Π House.
† John Vincent Watchorn,	<i>Philadelphia, Pa.</i>	A X P House.
† Carroll Robbins Wetzell,	<i>Trenton, N. J.</i>	3 N. C.
§ John Samuel Wheeler,	<i>Taunton, Mass.</i>	<i>70 Home Ave.</i>
Warren Franklin Wielland,	<i>West Collingswood, N. J.</i>	† Y House.
† Fred Nixon Williams,	<i>Stamford.</i>	Δ K E House.
† John Joseph Williams,	<i>Seymour.</i>	94 N. C.
† Addison Hiram Wilson, Jr.,	<i>Groton.</i>	<i>255 William St.</i>
§ Robert Arthur Wilson,	<i>Valley Stream, N. Y.</i>	10 O. H.
William Gerbing Wood,	<i>Quincy, Ill.</i>	25 N. D.
§ Leland Milton Woodford,	<i>Bristol.</i>	<i>142 High St.</i>
† Edward Kittredge Wright,	<i>Lyndonville, Vt.</i>	96 N. C.
† Makoto Yamaguchi,	<i>New York, N. Y.</i>	7 O. H.
§ Gordon Gibbons Yarrow,	<i>Belleville, N. J.</i>	94 N. C.
† Everett Wiard Young,	<i>Pittsburgh, Pa.</i>	54 N. D.



## SPECIAL STUDENTS.

NAMES.	RESIDENCES.	ROOMS.
George Frederick Storey,	<i>New York, N. Y.</i>	9 O. H.
Fred Green Suria,	<i>Pennington, N. J.</i>	B & Π <i>House.</i>
George Tuckley Yarrow.	<i>Rowayton.</i>	83 N. C.

## ABBREVIATIONS.

[illegible]

[illegible]

UNITED STATES.

New York, -	160	New Hampshire, 5	Indiana, -	1	
Connecticut, -	123	Ohio, - -	5	Montana, -	1
New Jersey, -	81	Rhode Island, 3	Washington, -	1	
Massachusetts,	66	Iowa, - -	3	Texas, - -	1
Pennsylvania,	56	Illinois, - -	3	Kentucky, -	1
Vermont, -	14	Michigan, -	2	West Virginia,	1
Maine, - -	10	California, -	2	Florida, -	1
District of		Maryland, -	1	North Carolina,	1
Columbia, -	7	Minnesota, -	1	Hawaii, - -	1

**FOREIGN COUNTRIES.**

India, - - 2	Japan, - - 1	Syria, - - 1
France, - - 1	Monrovia, - 1	Panama, - 1
Germany, - 1	Malaysia, - 1	
Total, - - - - -	- - - - -	560

## GENERAL STATEMENT.

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**Courses of Study.**—The College presents to its undergraduates the option of three parallel courses of study, each extending through four years, and leading respectively to the degrees of Bachelor of Arts, Bachelor of Philosophy, and Bachelor of Science. Students in each of the courses are required to take English in the Freshman year, and physical education in each of the first three years. Candidates for the B. A. degree must take a three-hour course in either Latin or Greek, and two three-hour courses in either German or French, if not presented for admission, unless the student takes both Latin and Greek. Candidates for the Ph. B. degree must take two three-hour courses in both German and French, if not presented for admission; a three-hour course each in logic and psychology, in history, and in economics; and a three-hour course in mathematics, if not presented for admission. Candidates for the B. S. degree must take two three-hour courses in both German and French, if not presented for admission, a three-hour course in mathematics, and a three-hour course in in either physics or chemistry. The remainder of the work for the first two years must be distributed among certain departments of study, in accordance with various regulations which are intended to secure generalization. For the last two years the student must take nine hours of a major study, around which shall be arranged six other hours of work, thus forming a concentration group. The remaining work of the last two years is elective.

**Special Courses.**—Students over twenty-one years of age who do not desire to complete any of the foregoing courses may receive instruction in such studies as they may select, provided they prove themselves, upon examination, qualified to pursue them with advantage. It should, however, be understood that this provision is intended for the benefit, not of those students who are incompetent to take one of the regular courses, but of

those who have already obtained a preliminary education so thorough as to enable them to pursue with advantage extended courses of study in particular departments. Such special students will be expected to attend all exercises assigned them, and will be subject to all the general rules of the college.

**Graduate Studies.**—Extended instruction is given to those who wish to pursue graduate courses of study in any of the departments. These courses are intended for those who do not desire to become candidates for the Master's degree, as well as for those who apply for admission to candidacy for such degree. The work of such students, whether candidates for a degree or not, is under the direction of the Committee on Graduate Instruction. The work of a graduate student may consist of undergraduate courses which he has not already completed, or work outside the curriculum assigned by his instructors, or both.

## REQUIREMENTS FOR ADMISSION.



For admission without condition to the B. A. course the candidate must secure credit for  $14\frac{1}{2}$  units, a unit representing a year's work in a secondary school with four or five periods a week, and constituting approximately a quarter of a full year's work. The requirement for admission to the Ph. B. or the B. S. course is 15 units. Not more than four units of credit will be allowed in any subject.

**B. A. DEGREE.**—Candidates for the B. A. degree must present English, 3 units, Elementary Algebra,  $1\frac{1}{2}$  or 2 units, Plane Geometry, 1 unit, and either Latin, 4 units, or Greek, 3 units; making a total of  $8\frac{1}{2}$  to 10 units. The remaining units to make up a total of  $14\frac{1}{2}$  may be selected from any of those specified below, but candidates are strongly advised to include ancient history in their choice.

**PH. B. or B. S. DEGREE.**—Candidates for the Ph. B. or B. S. degree must present English, 3 units, Elementary Algebra,  $1\frac{1}{2}$  or 2 units, Plane Geometry, 1 unit, and either four units of foreign languages, or three units of a modern language; making a total of  $8\frac{1}{2}$  to 10 units. The remaining units to make up a total of 15 may be selected from any of those specified below.

### SCALE OF VALUES.

	Units.
English, 4 years, - - - - -	3
Latin, 2 years, - - - - -	2
3rd year, - - - - -	1
4th year, - - - - -	1
Greek, 2 years, - - - - -	2
3rd year, - - - - -	1
German—Elementary, 2 years, - - -	2
Intermediate, 3rd year, - - -	1
French—Elementary, 2 years, - - -	2
Intermediate, 3rd year, - - -	1

	Units.
† Spanish—Elementary, 2 years, - - -	2
Intermediate, 3rd year, - - -	1
History—Ancient History, - - -	1
Mediaeval and Modern History, -	$\frac{1}{2}$ or 1 *
Modern History, - - -	1
English History, - - -	$\frac{1}{2}$ or 1 *
American History, - - -	$\frac{1}{2}$ or 1 *
Mathematics—Algebra to Quadratics, - -	1
Quadratics and beyond, - - -	$\frac{1}{2}$ or 1 *
Plane Geometry, - - -	1
Solid Geometry, - - -	$\frac{1}{2}$
Advanced Algebra, - - -	$\frac{1}{2}$
Plane Trigonometry, - - -	$\frac{1}{2}$
Physics, theoretical and practical, - - -	1
Chemistry, theoretical and practical, - - -	1
Physical Geography, - - -	$\frac{1}{2}$ or 1 *
Biology, - - -	$\frac{1}{2}$ or 1 *

## REQUIREMENTS IN DETAIL.

### ENGLISH.

The candidate may choose between two plans for preparation and examination, the Restrictive and the Comprehensive. If the Comprehensive plan is chosen, the examination must be taken with the College Entrance Examination Board in June.

#### I. REQUIREMENTS UNDER THE RESTRICTIVE PLAN.

1. Habits of correct, clear, and truthful expression. This part of the requirement calls for a carefully graded course in oral and written composition, and for instruction in the practical essentials of grammar, a study which ordinarily should be reviewed in the secondary school. In all written work constant attention should be paid to spelling, punctuation, and good usage in general as distinguished from current errors. In all oral work there should be constant insistence upon the elimination of such elementary errors as personal speech-defects, foreign accent, and obscure enunciation.

† Students offering two modern languages for admission are advised to choose German and French.

\* Depending on the length of the course.

2. Ability to read with intelligence and appreciation works of moderate difficulty; familiarity with a few masterpieces. This part of the requirement calls for a carefully graded course in literature. Two lists of books are provided from which a specified number of units must be chosen for reading and study. The first, designated as the A List, contains selections appropriate for the earlier years in the secondary school. These should be carefully read, in some cases studied, with a measure of thoroughness appropriate for immature minds. The second, designated as the B List, contains selections for the closer study warranted in the later years. The progressive course formed from the two lists should be supplemented, at least by home reading on the part of the pupil and by class-room reading on the part of pupils and instructor. It should be kept constantly in mind that the main purpose is to cultivate a fondness for good literature and to encourage the habit of reading with discrimination.

#### THE A LIST.

From each group two selections are to be made, except that for any book in group V a book from any other may be substituted.

GROUP I.—Dickens: *A Tale of Two Cities*; George Eliot: *Silas Marner*; Scott: *Quentin Durward*; Stevenson: *Treasure Island* or *Kidnapped*; Hawthorne: *The House of the Seven Gables*.

GROUP II.—Shakespeare: *Merchant of Venice*, *Julius Caesar*, *King Henry V*, *As You Like It*.

GROUP III.—Scott: *The Lady of the Lake*; Coleridge: *The Ancient Mariner*; Arnold: *Sohrab and Rustum*.

A collection of representative verse, narrative and lyric.

Tennyson: *Idylls of the King* (any four).

*The Aeneid* or *The Odyssey* in a translation of recognized excellence, with the omission, if desired, of Books I-V, XV, and XVI of *The Odyssey*.

GROUP IV.—The Old Testament (the chief narrative episodes in *Genesis*, *Exodus*, *Joshua*, *Judges*, *Samuel*, *Kings*, and *Daniel*, together with the Books of *Ruth* and *Esther*).

Irving: *The Sketch Book* (about 175 pages); Addison and Steele: *The Sir Roger de Coverley Papers*; Macaulay: *Lord Clive*; Parkman: *The Oregon Trail*; Franklin: *Autobiography*.

GROUP V.—A modern novel.

A collection of short stories (about 150 pages).

A collection of contemporary verse (about 150 pages).

A collection of prose writings on matters of current interest (about 150 pages).

Two modern plays.

All selections from this group should be works of recognized excellence.

#### THE B LIST.

One selection is to be made from each group.

GROUP I.—Shakespeare: *Macbeth*, *Hamlet*.

GROUP II.—Milton: *L'Allegro*, *Il Penseroso*, and either *Comus* or *Lycidas*; Browning: *Cavalier Tunes*, *The Lost Leader*, *How They Brought the Good News from Ghent to Aix*, *Home Thoughts from Abroad*, *Home Thoughts from the Sea*, *Incident of the French Camp*, *Hervé Riel*, *Pheidippides*, *My Last Duchess*, *Up at a Villa—Down in the City*, *The Italian in England*, *The Patriot*, *The Pied Piper*, *De Gustibus*, *Instans Tyrannus*, *One Word More*.

GROUP III.—Macaulay: *Life of Johnson*; Carlyle: *Essay on Burns*, with a brief selection from *Burns's Poems*; Arnold: *Wordsworth*, with a brief selection from *Wordsworth's Poems*.

GROUP IV.—Burke: *Speech on Conciliation with America*.

A collection of orations, to include at least Washington's *Farewell Address*, Webster's *First Bunker Hill Oration*, and Lincoln's *Gettysburg Address*.

#### EXAMINATIONS UNDER THE RESTRICTIVE PLAN.

The examinations will be in two parts, each of which will occupy an hour and a half. The first part will test powers of correct, clear, truthful expression. The candidate will write one or more compositions several paragraphs in length. For this purpose a list of eight or ten subjects will be provided. These may be suggested in part by the books in the A List, but a sufficient number from other sources will make it possible for the candidate to draw upon his own experience



and ideas. He will not be expected to compose at a more rapid rate than three hundred fifty words an hour, but his work must be free from common errors in grammar, idiom, spelling, and punctuation, and should show that he understands the principles of unity and coherence. In addition, questions may be asked on the practical essentials of grammar, such as the construction of words and the relation of various parts of a sentence to one another.

The second part will test the faithfulness with which the candidate has studied the works in the B List, and his ability to grasp quickly the meaning of a passage of prose or verse that he has not previously seen and to answer simple questions on its literary qualities. The examination may call also for the writing of a short composition.

In connection with the second part of the Restrictive Examination the candidate will be required to submit a statement certified by his principal specifying what books he has read during his secondary school course, and indicating the quality and character of his spoken English.

## II. REQUIREMENTS AND EXAMINATIONS UNDER THE COMPREHENSIVE PLAN.

The requirements under the Comprehensive Plan are identical with the requirements under the Restrictive Plan except that no books are prescribed for reading and study, the selecting of suitable works being left to the preparatory school. The Comprehensive Examination will test powers of correct, clear, truthful expression. The candidate will write one or more compositions several paragraphs in length. For this purpose a list of eight or ten subjects will be provided. It will in addition enable the candidate to show that he has read, understood, and appreciated a sufficient amount of English literature. Questions will be asked that cannot be answered except by those who are able to apply what they have learned to passages of literature which they have not read before. The time of the Comprehensive Examination will be three hours.

Examination under the Comprehensive Plan is not given by this college, but additional information concerning it may be obtained from the Dean of the College, or from the Secretary of the College Entrance Examination Board, 431 W. 117th St., New York City.

## LATIN.

## I. AMOUNT AND RANGE OF READING REQUIRED.

1. The Latin reading required of candidates for admission to the B. A. course, without regard to the prescription of particular authors and works, is not less *in amount* than Caesar, Gallic War, I-IV; Cicero, the orations against Catiline, for the Manilian Law, and for Archias; Vergil, Aeneid, I-VI.

2. The amount of reading specified above should be selected by the schools from the following authors and works: Caesar (Gallic War and Civil War) and Nepos (Lives); Cicero (orations, letters, and De Senectute) and Sallust (Catiline and Jugurthine War); Vergil (Bucolics, Georgics, and Aeneid) and Ovid (Metamorphoses, Fasti, and Tristia).

## II. SUBJECTS AND SCOPE OF THE EXAMINATIONS.

1. Translation at Sight. Candidates will be examined in translation at sight of both prose and verse. In vocabulary, constructions, and range of ideas, the passages set will be suited to the preparation secured by the reading indicated above.

2. Prescribed Reading. Candidates will be examined also upon the following prescribed reading: Cicero, the fourth oration against Catiline, and the oration for the Manilian Law; Vergil, Aeneid, I and IV; Ovid, Metamorphoses, Book III, 1-137 (Cadmus); IV, 55-166 (Pyramus and Thisbe), and 663-764 (Perseus and Andromeda); VI, 165-312 (Niobe); VIII, 183-235 (Daedalus and Icarus); X, 1-77 (Orpheus and Eurydice); XI, 85-145 (Midas). Accompanying the different passages will be questions on subject-matter, literary and historical allusions, and prosody.

Every paper in which passages from the prescribed reading are set for translation will contain also one or more passages for translation at sight; and candidates must deal satisfactorily with both these parts of the paper, or they will not be given credit for either part.

The papers set by the College Entrance Examination Board, corresponding to the above requirements, are Latin 4 and 5.

3. Grammar and Composition. The examinations in grammar and composition will demand thorough knowledge of all regular inflections, all common irregular forms, and the ordinary syntax and vocabulary of the prose authors read in school,

with ability to use this knowledge in writing simple Latin prose. The words, constructions, and range of ideas called for in the examinations in composition will be such as are common in the reading of the year, or years, covered by the particular examination.

The papers set by the College Entrance Examination Board, corresponding to the above requirements, are Latin 1 and 2.

In the case of candidates who desire credit for *two years'* work in Latin, the required reading is not less *in amount* than Caesar, Gallic War, I.-IV., and should be selected from the following: Caesar (Gallic War and Civil War) and Nepos (Lives). The test is on ability to read at sight, and no part of the reading is prescribed for examination. The corresponding paper of the College Entrance Examination Board is Latin 3. For *three years'* credit, the required reading is not less *in amount* than Caesar, Gallic War, I.-IV., and Cicero, the orations against Catiline, for the Manilian Law, and for Archias; this reading should be selected from Caesar (Gallic War and Civil War) and Nepos (Lives), Cicero (orations, letters, and De Senectute) and Sallust (Catiline and Jugurthine War). Cicero's third oration against Catiline, and the orations for the Manilian Law and for Archias are prescribed for examination, in addition to the translation at sight. The corresponding paper of the College Entrance Examination Board is Latin 4. For this may be substituted, if desired, the examination in fourth-year Latin, Vergil (Aeneid, Books II, III, and VI), and Translation of Poetry at Sight (Latin 5).

Certificates for two years of Latin must state that the candidate has had systematic practice, and has exhibited satisfactory proficiency, in reading at sight Latin of the average difficulty of Caesar; certificates for three years must vouch for similar practice and proficiency in reading at sight Latin of the average difficulty of either Cicero's orations or Vergil's Aeneid; and certificates for four years must vouch for such practice and proficiency in reading at sight Latin of the average difficulty of both Cicero's orations and Vergil's Aeneid.

#### GREEK.

1. Greek grammar, including prosody. The following textbooks are recommended: Hadley-Allen's, Goodwin's, or Babbitt's.

2. Xenophon,—Anabasis, books I.—IV.
3. Homer,—Iliad, books I.—III.
4. Translation at sight of one or more passages from Xenophon.
5. Translation into Greek of easy narrative passages based on the required books of the Anabasis.

To meet the full requirement in Greek, candidates must pass the following examinations of the College Entrance Examination Board: Greek *a i*, *a ii*, *b*, *c*, *g*.

#### GERMAN.

ELEMENTARY (counting as two units).—Such a knowledge of the language is required as may be obtained by the reading of at least 250 pages, part of which should be read at sight. It is recommended that there be sufficient aural and oral practice to enable the student to write simple German prose from dictation and to read the language aloud with a correct and intelligible pronunciation. The ability to answer simple questions in German is also highly important. The examination consists of the translation at sight into English of easy passages of German, elementary grammatical questions, and the translation of simple English sentences into German. To meet this requirement two years' work will generally be necessary.

INTERMEDIATE (counting as one unit). — The requirement includes the reading of at least 400 additional pages of German (a part of which should be non-fiction), and regular practice in writing German. Further practice in speaking German is recommended, sufficient to enable the student to understand simple spoken German, and to express simple ideas in the language. At least one additional year of study will be necessary to meet this requirement.

#### FRENCH.

ELEMENTARY (counting as two units).—Such a knowledge of the language is required as may be obtained by the reading of at least 400 pages, part of which should be read at sight. The ability to write simple French prose from dictation, to read aloud with a correct pronunciation, and to answer simple questions in French, is important. The examination consists

of the translation at sight into English of easy passages of French, elementary grammatical questions, and the translation of simple English sentences into French. To meet this requirement two years' work will generally be necessary.

INTERMEDIATE (counting as one unit).—The requirement includes the reading of not less than 600 additional pages of French (including at least two works of a dramatic character), and regular practice in writing and speaking French. At least one additional year of study will be necessary to meet this requirement.

#### SPANISH.

ELEMENTARY (counting as two units).—Such a knowledge of the language is required as may be obtained by the reading of at least 300 pages, part of which should be read at sight. The ability to write simple Spanish prose from dictation, to read aloud with correct pronunciation, and to answer simple questions in Spanish, is important. The examination consists of the translation at sight into English of easy passages from Spanish, elementary grammatical questions, and the translation of simple English sentences into Spanish. To meet this requirement two years' work will generally be necessary.

INTERMEDIATE (counting as one unit).—The requirement includes the reading of not less than 300 additional pages of Spanish and the ability to translate into Spanish a connected passage of English based on the text read, as well as to answer questions involving a more thorough knowledge of syntax than is expected in the elementary course. At least one additional year of study will be necessary to meet this requirement.

#### HISTORY.

1. Ancient History to the death of Charlemagne (814).
2. Mediaeval and Modern European History from the death of Charlemagne (814) to the present time.
3. Modern History from about 1660 to the present time.
4. English History.
5. American History.
6. American History and Civil Government.

Courses 1, 2, 4, and 6 are outlined in *The Study of History in Schools: Report to the American Historical Association by the*

*Committee of Seven* (1899), and with more detail in *A History Syllabus for Secondary Schools . . . by a Special Committee of the New England History Teachers' Association* (1904), and in *Syllabus for Secondary Schools, 1910*, published by the University of the State of New York. These six courses are identical with those scheduled for examination by the College Entrance Examination Board.

In each of the above courses the following requirements must be met:

1. One year of historical work, wherein the study is given five times per week, or two years of historical work, wherein the study is given three times per week.
2. Such general knowledge of the whole course as may be acquired from the study of an accurate text-book, amounting to not less than 500 pages.
3. A fuller knowledge derived from suitable collateral reading, in books of a less elementary nature, amounting to at least 500 pages.
4. Comparisons between historical characters, periods, and events, and in general the power to combine in orderly fashion the results of reading, and to exercise judgment as well as memory.
5. Geographical knowledge, tested by the location of places, movements, and territorial changes on an outline map, by physical features wherever possible, as well as by political features.

Schools having the certificate privilege must certify only those courses in history actually pursued in the high school, and must omit any courses taken in the grammar school, or merely passed on examination, or not complying with the above requirements.\*

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\* In case of schools entitled to the certificate privilege, where any of the courses in history are such that they do not meet the above requirements, the teacher should give the student a detailed statement of the courses taken and of his grades, which statement will be considered in connection with such examination as may be deemed necessary to determine the amount of credit to be allowed. In no case will account be taken of a course in Greek History which does not extend at least to the death of Alexander (B. C. 323), or of a course in Roman History which does not extend at least to the death of Marcus Aurelius (A. D. 180). No account will be taken of any course of less than five periods for a half-year, or three periods for a year.

The Regents' diplomas and supplementary pass cards of the University of the State of New York for the *five-hour* examinations will be received as covering the first, fourth, and sixth of the above groups, and for the three hour examinations in *both* Modern History I. and Modern History II. as covering the second of the above groups.† Similar credentials covering Courses B (Modern History) and C (American History) outlined in the Regents' *Syllabus* of 1920 will be received as equivalent to the third and sixth of the above groups.

Candidates for the B.A. degree are advised to present Ancient History, the first of the above groups, and may, in addition, present not to exceed three of the other groups. Candidates for the B. S. or Ph. B. degree may present not to exceed four of the above groups.

## MATHEMATICS.

### 1. ELEMENTARY ALGEBRA.

(a) Algebra to Quadratics. The four fundamental operations for rational algebraic expressions. Factoring, determination of highest common factor and lowest common multiple by factoring. Fractions, including complex fractions, and ratio and proportion. Linear equations, both numerical and literal, containing one or more unknown quantities. Problems depending on linear equations. Radicals, including the extraction of the square root of polynomials and of numbers. Exponents, including the fractional and negative.

(b) Quadratics and beyond. Quadratic equations, both numerical and literal. Simple cases of equations with one or more unknown quantities, that can be solved by the methods of linear or quadratic equations. Problems depending on quadratic equations. The binomial theorem for positive integral exponents. The formulas for the  $n$ th term and the sum of the terms of arithmetical and geometric progressions, with applications.

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† No credit will be allowed for the *three-hour* examination in Ancient History. Temporarily, the three-hour examinations in the other subjects will be credited for a half-unit. No credit is given for Elementary United States History and Civics, or Civics, or Economics, or for Course A (Ancient and Mediaeval History) as outlined in the 1920 *Syllabus*.

## 2. PLANE GEOMETRY.

The usual theorems and constructions of good text-books, including the general properties of plane rectilinear figures; the circle and the measurement of angles; similar polygons; areas; regular polygons, and the measurement of the circle. The solution of numerous original exercises, including loci problems. Applications to the mensuration of lines and plane surfaces.

## 3. SOLID GEOMETRY.

The usual theorems and constructions of good text-books, including the relations of planes and lines in space; the properties and measurement of prisms, pyramids, cylinders, and cones; the sphere and the spherical triangle. The solution of numerous original exercises, including loci problems. Applications to the mensuration of surfaces and solids.

## 4. ADVANCED ALGEBRA.

Permutations and combinations, limited to simple cases. Complex numbers, with graphical representation of sums and differences. Determinants, chiefly of the second, third, and fourth orders, including the use of minors and the solution of linear equations. Numerical equations of higher degree, and so much of the theory of equations, with graphical methods, as is necessary for their treatment, including Descartes' rule of signs and Horner's method, but not Sturm's functions or multiple roots.

## 5. PLANE TRIGONOMETRY.

Definitions and relations of the six trigonometric functions as ratios; circular measurement of angles. Proofs of principal formulas, in particular for the sine, cosine, and tangent of the sum and the difference of two angles, of the double angle and the half angle, the product expressions for the sum or the difference of two sines or of two cosines, etc.; the transformation of trigonometric expressions by means of these formulas. Solution of trigonometric equations of a simple character. Theory and use of logarithms (without the introduction of work involving infinite series). The solution of right and oblique triangles, and practical applications.



## PHYSICS.

The course of instruction should include:

(1) The careful study of a standard text-book, for the purpose of obtaining a connected and comprehensive view of the subject.

(2) Lecture table demonstrations, mainly qualitative, illustrating important facts and phenomena and their practical applications.

(3) Individual laboratory work, consisting of experiments requiring at least the time of thirty double periods. The experiments performed by each student should number at least 30. They should be chiefly quantitative, and so chosen as to give a wide range of observation and practice. They should be neatly recorded in a suitable note-book, indexed, and certified by the instructor. This book should be deposited with the examiner when the candidate presents himself for examination. Students entering on certificate are not required to show their note-books.

The above requirements are intended to be identical with those of the College Entrance Examination Board, as set forth in their Document No. 105. Teachers of physics are advised to consult this document for a valuable syllabus of topics and list of experiments.\*

## CHEMISTRY.

The requirements for admission in chemistry may be summarized as follows:

(1) Individual laboratory work, comprising at least forty experiments. The candidate who is examined in chemistry for admission to college must present his original note-book containing a record in his own words of the experiments, and of his observations and conclusions in connection with them. The note-book should include an index of the experiments performed, and must be certified by the instructor. It should be deposited with the examiner when the candidate presents himself for examination. Students entering on certificate are not required to show their note-books.

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\* See note at the bottom of next page.

(2) Instruction by lecture table demonstrations, covering the more important facts and principles of elementary chemistry.

(3) The thorough study of at least one standard text-book, for the acquisition of a comprehensive and connected view of the subject.

These requirements are intended to be identical with those of the College Entrance Examination Board. Teachers who desire to meet them should consult Document No. 105 of the Board.\*

### PHYSICAL GEOGRAPHY.

In physical geography, such a knowledge of the subject is required as may be gained from the study of the text-book of any one of the following authors: Salisbury, Tarr, Davis, Gilbert and Brigham, Hinman, Dryer, Hopkins, Geikie. Certificates in physical geography will not be accepted without examination, with credit of one half-unit, unless one of the text-books above mentioned has been used, and the time devoted to the study has been at least the equivalent of four exercises a week for a half-year. Certificates will not be accepted without examination, with credit of one unit, unless one of the text-books above mentioned has been used, supplemented by laboratory work, and the time devoted to the study has been at least the equivalent of four exercises a week for a year. The laboratory note-book, properly certified by the instructor, must be deposited with the examiner when the candidate presents himself for examination. Students entering on certificate are not required to show their note-books.

### BIOLOGY.

Credit will be given in biology for either one-half unit or for one unit, according to the amount of time the student has given to the study. To obtain a credit of one unit, the student must have given to the study the equivalent of four or five hours a week for a year. The candidate must present his original note-book containing a record of his drawings and observations on the work of the laboratory. The note-book must

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\* Address College Entrance Examination Board, 431 W. 117th St., New York, N. Y. The price of the document is ten cents.

be certified by the instructor. Credit will be allowed for work in either botany or zoölogy, any of the modern text-books in these subjects being recognized as satisfactory. If the student desires credit for a unit in botany he is expected to have a knowledge of both structural and morphological botany, and to have a practical familiarity with the method of analyzing flowers and using analytical keys. In zoölogy a more thorough comprehension of the structure and classification of animals is expected if a unit credit is given than if only a half unit. In case a student has had an extended course in physiology, this may be accepted in place of botany.

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### SPECIAL COURSES.

Special students, not candidates for a degree, may be admitted, upon passing such examinations as the Faculty shall in each case prescribe. (See also page 39.)

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### GENERAL REGULATIONS CONCERNING ADMISSION.

**ADVANCED STANDING.**—All candidates for advanced standing must satisfy the Faculty of their proficiency in the preparatory studies, the required studies already pursued by the classes they propose to enter, and the proper quota of elective studies, or studies recognized as equivalents therefor. A certificate of standing in another college is not accepted as evidence of such proficiency, without such further inquiry or examination as may be necessary in the judgment of the respective instructors. No student is admitted from another college unless his standing in scholarship is at least as high as that required in Wesleyan University for promotion from class to class.

**PRELIMINARY EXAMINATIONS.**—Preliminary examinations in any of the requirements for admission may be taken a year or more before entering college, and a candidate will receive credit for any subjects thus passed in advance.

**DATE AND PLACE OF EXAMINATIONS.**—Examinations for admission are held twice each year, in June and in September. The June examinations are those of the College Entrance Examination Board, and are conducted under the following regulations.

The application for examination should be addressed to the College Entrance Examination Board, 431 West 117th Street, New York, N. Y. The form to be used may be obtained from the Secretary of the College Entrance Examination Board upon request by mail.

Provided that the application reach the College Entrance Examination Board not later than the date specified below, the examination fee will be \$9.00 if the candidate is to be examined in the United States or Canada, \$20.00 if the candidate is to be examined outside of the United States or Canada. The fee should be transmitted by postal order, express order, or draft on New York, should accompany the application, and should be payable to the College Entrance Examination Board.

Applications and fees of candidates who wish to be examined outside of the United States or Canada must reach the Secretary of the Board at least six weeks in advance of the examinations, that is, on or before May 5, 1924.

Applications and fees of candidates who wish to be examined at points in the United States west of the Mississippi River or in Canada must be received at least four weeks in advance of the examinations, that is, on or before May 19, 1924.

Applications and fees of candidates who wish to be examined at points in the United States east of or on the Mississippi River must be received at least three weeks in advance of the examinations, that is, on or before May 26, 1924.

When the candidate has failed to obtain the required blank form of application for examination, the usual examination fee will be accepted if the fee arrive not later than the specified date accompanied by a memorandum containing the name and address of the candidate, the examination center at which he wishes to present himself, and a list of all subjects in which he may have occasion to take the Board's examinations.

Applications received later than the dates named will be accepted only upon payment of an additional fee of nine dollars.

A list of the places at which the examinations are to be held by the Board in June, 1924, will be published about March 1. Requests that the examinations be held at particular points, to receive proper consideration, should be transmitted to the Secretary of the Board not later than February 1.

The examinations in June, conducted by the Examination Board, will be held June 16-21, 1924. The examinations in September will be conducted by the college, and no fees will be charged. They will be held only in Middletown. The dates of the examinations in 1924 will be September 12, 13, and 15.

**ADMISSION BY CERTIFICATE.**—Certificates covering the foregoing requirements for admission to college are received from certain schools of good standing, which have been approved by the Faculty. A certificate will not be received unless it covers decidedly the major part of the requirements for admission.

No certificate will be received from any school in New England which has not been approved by the New England College Entrance Certificate Board, of which this college is a member. The Secretary of the Board is Dean Frank W. Nicolson, of Wesleyan University, Middletown, Conn., to whom applications from New England schools for the certificate privilege should be addressed. Such applications must reach the Secretary not later than April first, if approval is desired for the next academic year.

The academic diploma in classical or technical subjects, issued by the Regents of the University of the State of New York, and their college entrance diploma in arts, science, or engineering, together with pass cards or advanced diplomas supplementary to the above will be received in lieu of examination in such of the subjects required for admission as they cover. Regents' certificates, and pass cards without diplomas, will not be accepted.

Certificates from preparatory schools and Regents' diplomas are never accepted in lieu of examination for advanced standing.

Students entering by certificate are considered as on trial until the completion of the mid-year examinations. A student admitted to college on certificate, who is dismissed during his Freshman year on account of inability to keep up with his class, must take examinations in all subjects required for admission, in case he desires to return to college.

Detailed information concerning admission by certificate may be obtained on application to the Dean.

ADMISSION OF WOMEN.—Women were first admitted to the University in 1872. The Trustees voted, February 26, 1909, that no women should be admitted in any class later than that entering in 1909. Women may be admitted, however, as graduate students.

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Satisfactory evidence of good moral character will be required in the case of all candidates for admission; and certificates of honorable dismissal will be required from those who have been members of other colleges.

## COURSES OF INSTRUCTION.

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For regulations concerning selection of studies, see page 118.

Bracketed courses are not given this year, but will, in most cases, be given next year.

The Roman numerals in parentheses following each course indicate the examination group to which it is assigned. For table of groups, see pages 116, 117.

The place of meeting of each course is indicated by means of the following abbreviations: F. H.=Fisk Hall; J. H.=Judd Hall; O. H.=Observatory Hall; S. C.=South College; S. L.=Scott Laboratory of Physics; CHEM. LAB., BIOL. LAB.=Chemical, Biological Laboratory.

An asterisk prefixed to the number of a course indicates that it can be elected only with the previous approval of the instructor; such approval must be *in writing* and must be handed in by the student *along with his list of electives*.

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## REGISTRATION OF COURSES.

Students are required to leave at the Office, not later than June 1, their lists of studies for next year. At the same time, Sophomores must hand in their lists of concentration studies. The cards of Freshmen must bear the signature in approval of a member of the Faculty Committee of Freshman Counsellors, those of Sophomores and Juniors, the signatures of those who signed their lists of concentration studies.

## ASTRONOMY.

PROFESSOR SLOCUM; ASSISTANT PROFESSOR SITTERLY.

1. **DESCRIPTIVE ASTRONOMY.** A general introduction to the subject, dealing with the fundamental conceptions of the celestial sphere, astronomical instruments, the earth, moon, sun, planets, and their satellites, comets, meteors, stars, nebulae, and a brief outline of modern cosmogonies. Recitations, lectures, constellation study, and frequent use of the telescope. SECTION 1, *Mon., Wed., Fri., at 11*; SECTION 2, *Mon., Wed., Fri., at 1*. VAN VLECK OBSERVATORY. PROFESSOR SLOCUM and ASSISTANT PROFESSOR SITTERLY. (V)

Course 1 is elective for those who have taken, or are taking, a course in trigonometry.

2. **PRACTICAL ASTRONOMY.** Use of sextant, transit, zenith telescope, chronometer, and chronograph for solving such problems as time, latitude, longitude, and azimuth as used in astronomy, geodesy, and navigation. Use of equatorial telescope for simple observations. Methods of computation. *Wed., Fri., at 10, and two hours of observations, four hours counting as three*. VAN VLECK OBSERVATORY. ASSISTANT PROFESSOR SITTERLY. (III)

Course 2 is elective for those who have taken a course in trigonometry.

3. **HISTORY OF ASTRONOMY.** A rapid survey of the development of the science from its origin down to the present time. Lectures, collateral reading, reports. *Mon., Wed., Fri., at 9 (second half-year)*. VAN VLECK OBSERVATORY. PROFESSOR SLOCUM. (II)

Course 3 is elective for Sophomores. It may not be elected by those who have taken, or who are taking, Course 1.

4. **SPHERICAL ASTRONOMY AND OBSERVATORY PRACTICE.** Reduction and determination of positions of fixed stars. Proper motion and parallax. Star catalogues. Theory and adjustment of the equatorial. Use of the micrometer and comparator for measuring double stars, positions of planetoids, comets, etc. *Tu., Th., at 10, and two hours of observations*,



*four hours counting as three.* VAN VLECK OBSERVATORY.  
PROFESSOR SLOCUM. (IX)

Course 4 is elective for those who have taken Course 2 in astronomy and Course 7 in mathematics.

5. ASTROPHYSICS. Theory and use of the spectroscope, photometer, and astronomical camera. Spectroscopic study of the sun and stars. Binary systems. Variable stars. Measurement of spectra and direct photographs. *Tu., Th., at 11, and two hours of observations, four hours counting as three.* VAN VLECK OBSERVATORY. ASSISTANT PROFESSOR SITTERLY. (X)

Course 5 is elective for those who have taken Courses 2 and 1 or 3 in astronomy, and Course 7 in mathematics.

6. INTRODUCTION TO CELESTIAL MECHANICS. Laws of motion. Study of parabolic and elliptic orbits. *Three times a week, the hours to be determined.* VAN VLECK OBSERVATORY. PROFESSOR SLOCUM.

Course 6 is elective for those who have taken Course 4 in astronomy and Course 11 in mathematics.

## BIOLOGY.

PROFESSORS SCHNEIDER AND GOODRICH; ASSOCIATE PROFESSOR WOODS.

1. GENERAL BIOLOGY. An introduction to the biological sciences. This course, touching briefly upon the more important problems of modern biology, includes a study of a few representative plant and animal types, with special emphasis on the structure and physiology of the frog. SECTION 1, *Tu., Th., Sat., at 10*; SECTION 2, *Tu., Th., Sat., at 11, and one three-hour laboratory period, the course counting as three hours.* Laboratory sections, *Mon., Tu., Wed., Th., 1-4.* 8 J. H. ASSOCIATE PROFESSOR WOODS. (XVII)

Course 1 is elective for Freshmen. It is a prerequisite for advanced courses in the department, and is necessary for students preparing to enter medical colleges.

2. BOTANY. A general course, dealing principally with the comparative structure of the lower plants (Thallophytes,

Bryophytes, and Pteridophytes). *Tu., Th., at 8, and one three-hour laboratory period (first half-year), counting as three hours.* 8 J. H. ASSOCIATE PROFESSOR WOODS. (VII)

Course 2 is elective for those who have taken Course 1.

3. SYSTEMATIC BOTANY. A continuation of course 2, dealing with the structure, classification, and physiology of the seed-plants (Spermatophytes). A large part of the laboratory work is devoted to flower analysis and the preparation of an herbarium. *Tu., Th., at 8, and one three-hour laboratory period (second half year), counting as three hours.* 8 J. H. ASSOCIATE PROFESSOR WOODS. (VII)

Course 3 is elective for those who have taken Course 1.

[4. ENTOMOLOGY. A general course, dealing with the structures, habits, life histories, and classification of insects. Representative types are studied in each group, with special emphasis on forms injurious in agriculture or concerned in the transmission of disease. *Two lecture hours, and one three-hour laboratory period, counting as three hours.* ASSOCIATE PROFESSOR WOODS.]

Course 4 is elective for those who have taken Course 1. The work of either semester may be elected separately with the permission of the instructor. It is given in alternate years with Courses 2 and 3, and is omitted in 1923-24.

5. SANITARY SCIENCE. This course deals with public health problems and activities, and disease control. Some of the topics included are: Death and its causes, ancient and modern theories of disease, classifications of diseases, direct and predisposing causes of disease, means of avoiding and resisting disease, vehicles of disease such as dust, sewage, water, milk, etc., brief sketch of the transmissible and epidemic diseases, prophylaxis, special community problems. *Tu., Th., at 8.* 34 S. L. PROFESSOR SCHNEIDER. (VII)

Course 5 is elective for Sophomores.

6. INVERTEBRATE ZOÖLOGY. The course treats primarily of the anatomy, physiology, and natural history of representative types of the lower or invertebrate animals. *Mon., Wed.,*

*at 9, and five laboratory hours a week (first half-year), counting as four hours.* 8 J. H. PROFESSOR GOODRICH. (II)

Course 6 is elective for those who have taken Course 1.

7. VERTEBRATE ANATOMY. The course treats primarily of the comparative anatomy of the vertebrates. Especial emphasis is placed in laboratory work on the dissection of the dog-fish and the cat. *Mon., Wed., at 9, and five laboratory hours a week (second half-year), counting as four hours.* 8 J. H. PROFESSOR GOODRICH. (II)

Course 7 is elective for those who have taken Course 1. This course, with Course 1, will meet the requirements of most medical colleges.

8. PHYSIOLOGY AND PERSONAL HYGIENE. Lectures, recitations, and demonstrations dealing with the structures, activities, and care of the human body. *Mon., at 2; Tu., Th., at 9.* 8 J. H. PROFESSOR SCHNEIDER. (VIII)

Course 8 is elective for those who have taken Course 1. A course in chemistry is also desirable.

9. EXPERIMENTAL PHYSIOLOGY. A laboratory course, covering the following subjects: The general physiology of muscle and nerve tissues; phenomena of circulation; composition and function of blood; respiratory exchanges, movements, and control; digestion and absorption. *One three-hour laboratory period a week, counting as one hour.* 26 S. L. PROFESSOR SCHNEIDER.

Course 9 is elective for those who have taken Course 1, a course in chemistry, and who have taken, or who are taking, Course 8. The course may most profitably be taken as a parallel course to Course 8.

[\*10. ADVANCED PHYSIOLOGY. Investigation of special problems, and advanced readings. *Five, or seven and one-half, hours a week, counting as two or three hours respectively.* PROFESSOR SCHNEIDER.]

Course 10 is elective, with the permission of the instructor, for those who have taken Courses 8 and 9. It is omitted in 1923-24.

II. ORGANIC EVOLUTION AND GENETICS. The work of the first semester outlines evidence upon which the modern concept of evolution is based, including a brief review of the animal kingdom, with especial reference to forms living during past geologic eras. The evolution of the dinosaurs, mammals, and prehistoric man is studied in detail. The problems of the origin of life and the relation of inorganic to organic evolution are outlined. The second semester deals with the theories of the cause and progress of evolution, and with related problems, including the following topics: historical introduction, Lamarck's and Darwin's theories of evolution, social evolution, the germplasm, the problem of inheritance of acquired characteristics, pure lines, mutation, Mendelian inheritance, the physical basis of inheritance, heredity and environment, human inheritance, and eugenics. The work includes assigned readings from Darwin and other writers. *Mon., Wed., Fri., at 1.* 8 J. H. PROFESSOR GOODRICH.

(V)

Course 11 is elective for Juniors, and for others with the permission of the instructor. The first semester of the course may be combined with Geology 5 as a complete course, with the permission of the instructors.

\*12. BACTERIOLOGY. A general course in bacteriology. The laboratory covers the following subjects: Apparatus, culture media and methods of preparation, methods of sterilization, microscopic characteristics of cultures of bacteria, methods of diagnosis and of obtaining pure cultures, bacteriological investigations of air, soil, water, and milk. *Tu., Th., at 1, and five hours in the laboratory, counting as four hours.* 8 J. H. and 24 S. L. PROFESSOR SCHNEIDER. (XI)

Course 12 is elective, with the permission of the instructor, for those who have taken Course 1 and a course in chemistry. Course 5 is also recommended.

13. HISTOLOGY AND MICROSCOPIC ANATOMY. A laboratory course based on a study of mammalian and human tissues. The technique of preparation of microscopic slides is taught. Each student prepares for himself a representative permanent collection of microscopic slides of tissues. *Seven and one-*

*half laboratory hours (first half-year), counting as four hours.*

6 J. H. PROFESSOR GOODRICH.

Course 13 is elective for those who have taken Course 1.

14. EMBRYOLOGY. A laboratory course which includes a study of the formation of the germ cells, the development of the frog and the chick, and comparisons in human embryology. General problems of development are emphasized. *Twice a week, the hours to be determined, and five hours in the laboratory, counting as four hours (second half-year).* 5 J. H. PROFESSOR GOODRICH.

Course 14 is elective for those who have taken Course 1.

[\*15. ADVANCED EMBRYOLOGY. Special problems in embryology and related topics. Laboratory work and assigned readings. *The number of hours to be arranged with the instructor.* PROFESSOR GOODRICH.]

Course 15 is elective, with the permission of the instructor, for those who have taken Course 14. It is omitted in 1923-24.

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#### SCHOLARSHIP IN BIOLOGY.

A scholarship was founded in 1919 by action of the Board of Trustees of Wesleyan University to support work at the Marine Biological Laboratory at Woods Hole, Massachusetts. The expense in any one year is not to exceed \$125. This may be used to pay complete expenses for one student or in part for two students. Summer courses in invertebrate zoölogy, botany, embryology, physiology, and protozoölogy, and opportunities for research work are offered at the laboratory. The scholarship is open to all taking work in biology and application should be made to some member of the department.

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### CHEMISTRY.

PROFESSOR HOOVER; ASSOCIATE PROFESSOR HILL; MR. CAVELTI.

#### I. GENERAL CHEMISTRY.

A. Elementary Chemistry. A comprehensive descriptive course emphasizing generalizations, practical processes, and economic aspects of chemistry, for those who have not presented chemistry for entrance. Two demonstration lectures or class discussions in sections, one supplementary lecture

or discussion at the discretion of the instructor, with three hours of laboratory practice, counting as three hours. Lectures and discussions: SECTION 1, *Tu., Th., at 9.* 3 J. H. SECTION 2, *Tu., Th., at 9.* 1 J. H. Supplementary lecture, *Fri., at 9.* 3 J. H. Laboratory, *Mon., at 1, and two additional hours, Tu., at 1, and two additional hours, or Sat., at 9, and two additional hours.* PROFESSOR HOOVER and ASSOCIATE PROFESSOR HILL. (VIII)

B. Advanced Inorganic Chemistry. A course designed to present the principles of chemistry illustrated by systematic inorganic chemistry, for those who have presented chemistry for entrance. The laboratory work consists largely of inorganic preparations and experiments illustrating the general principles of chemistry. Two lectures or class discussions in sections, one supplementary lecture or discussion at the discretion of the instructor, with three hours of laboratory practice. Lectures and discussions; SECTION 3, *Mon., Wed., at 9.* 3 J. H. SECTION 4, *Mon., Wed., at 9.* 1 J. H. Supplementary lecture, *Fri., at 9.* 3 J. H. Laboratory, *Wed., at 1, and two additional hours; Th., at 1, and two additional hours; or Fri. at 1, and two additional hours.* PROFESSOR HOOVER and ASSOCIATE PROFESSOR HILL. (II)

Course 1A is elective for students beginning the study of chemistry, and, with the permission of the instructor, for those whose previous training does not fit them for Course 1B. Students who receive credit in chemistry on admission to college, but who take this course, will be given *one and one-half* hours credit.

Course 1B is elective for students who have received credit for chemistry on admission. Other students who have pursued a course in chemistry in a secondary school may elect Course 1B with the approval of the instructor. Students admitted to this course may be asked to change to Course 1A if their preparation does not seem to justify their continuing in an advanced course.

The courses in general chemistry are arranged in four sections to meet the needs of four classes of students. Section 1 is for those who have not received credit for chemistry on admission and do not expect to take further courses in this

subject. Section 2 is for those who have not received credit for chemistry on admission but may take further courses in the subject. Section 3 is for those who have received credit for chemistry on admission and plan to elect other courses in the subject. Section 4 is for those who have received credit for chemistry on admission but do not expect to elect further courses in the subject.

2. **ELEMENTARY THEORETICAL INORGANIC CHEMISTRY.** A review of the elementary theories and laws of chemistry, with special emphasis upon the theories of solution and chemical equilibrium, presented by lectures and class discussions. *Mon., Wed., Fri., at 10 (second half-year).* 3 J. H. PROFESSOR HOOVER. (III)

Course 2 is elective for those who are taking or who have taken, Course 1A. It is designed to prepare such students for further work in chemistry and in other sciences.

3. **QUALITATIVE ANALYSIS.** A laboratory course in basic and acid analysis, with lectures and class discussions on the application of the principles of theoretical chemistry to qualitative analysis. Three exercises per week; lectures or laboratory periods at the discretion of the instructor, counting as three hours. Lectures, *Tu., Th., Sat., at 10.* Laboratory, *Tu., Th., 1-4.* CHEM. LAB. MR. CAVELTI. (IX)

Course 3 is elective for those who have taken Course 1B, or Course 1A and Course 2.

4. **ELEMENTARY ORGANIC CHEMISTRY.** A general descriptive course in the chemistry of the compounds of carbon, emphasizing the practical applications. Combined with Course 1 it affords the student not specializing in chemistry an appreciation of the main facts of this science. It also forms a foundation for further work in organic chemistry and for the study of medicine. Two lectures or class discussions and one four-hour laboratory period, counting as three hours. Lectures, *Mon., Wed., at 1.* Laboratory, *Mon., 2-6, or Wed., 2-6.* 3 J. H. ASSOCIATE PROFESSOR HILL. (V)

Course 4 is elective for those who have taken Course 1.

5. **ELEMENTARY QUANTITATIVE ANALYSIS.** A laboratory course in gravimetric and volumetric analysis, with lectures and class discussions. The course consists of one lecture and two three-hour laboratory periods, counting as three hours. Lecture, *Fri.*, at 1. Laboratory, *Wed.*, 1-4, *Fri.*, 2-5. CHEM. LAB. . MR. CAVELTI. (V)

Course 5 is elective for those who have taken Course 3.

[6. **INDUSTRIAL CHEMISTRY.** Lectures, collateral reading, and occasional excursions. The purpose of this course is to give a general idea of the chemical processes involved in modern industry, and of the principles underlying chemical manufacture. In a few processes the details of manufacture are studied. The first semester deals with inorganic processes, the second with organic. *Three times a week.* PROFESSOR HOOVER.]

Course 6 is elective for those who take, or who have taken, Courses 3 and 4. It is omitted in 1923-24.

7. **PHYSICAL CHEMISTRY.** A course in elementary theoretical and physical chemistry. There are two lectures and one laboratory period or discussion each week, counting as three hours. *Tu., Th., Sat., at 11.* I J. H. PROFESSOR HOOVER and MR. CAVELTI. (X)

Course 7 is elective for those who have taken, or who are taking, Courses 4 and 5. It is advisable, though not necessary, to have taken, or to be taking, Course 7 in mathematics.

8. **ADVANCED ORGANIC CHEMISTRY.** A course consisting of lectures, recitations, and laboratory exercises. The lecture work deals with the advances in the fields of theoretical and synthetic organic chemistry. The laboratory work consists of important syntheses, not studied in Course 4, combustion analyses, and a group of experiments chosen to illustrate research methods. The course counts as three hours. Lectures, *Tu., Th., at 8, and four hours in the laboratory.* CHEM. LAB. ASSOCIATE PROFESSOR HILL. (VII)

Course 8 is elective for those who have taken Course 4, and who are taking, or have taken, Course 5.



9. CHEMISTRY SEMINARY. Lectures, assigned readings, discussions, and reports on recent developments in chemistry, theoretical and applied. The first semester is devoted largely to inorganic and physical chemistry and the second to organic. *Th., 7:30-10:30 p. m., counting as three hours.* I J. H. PROFESSOR HOOVER, ASSOCIATE PROFESSOR HILL, and MR. CAVELTI.

Course 9 is elective for those who have taken, or are taking, Courses 7 and 8.

10. ADVANCED QUANTITATIVE ANALYSIS. A course in modern industrial quantitative analysis. Selected methods for the analysis of ferrous and non-ferrous alloys, minerals and ores, soaps, oils, fats, waxes, etc. During the latter part of the year the laboratory work is along lines selected by the individual students, and the lecture material deals with metallography and physical testing. One lecture and two laboratory periods, counting as *three* hours. Lecture, *Fri., at 9.* CHEM. LAB. MR. CAVELTI. (II)

Course 10 is elective for those who have taken Courses 4 and 5.

[11. PHYSIOLOGICAL CHEMISTRY. Lectures and laboratory work. The following subjects are considered: Enzymes, fats, carbohydrates, proteins, digestion, absorption, nutrition, blood, milk, composition and analysis of urine. Two lectures or class discussions and one four-hour laboratory period, counting as *three* hours. ASSOCIATE PROFESSOR HILL.]

Course 11 is elective for those who have taken Course 4 in chemistry and who have taken, or are taking, Course 1 in biology. It is omitted in 1923-24.

\*12. INORGANIC RESEARCH. Investigation of special problems in analytical and physical chemistry. PROFESSOR HOOVER and MR. CAVELTI.

Course 12 is elective, with the permission of the instructor, for those who have taken Courses 4 and 7.

\*13. ORGANIC RESEARCH. Investigation of special problems in synthetic, theoretical, and applied organic chemistry. ASSOCIATE PROFESSOR HILL.

Course 13 is elective, with the permission of the instructor, for those who have taken Course 8.

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Students planning to specialize in chemistry are advised to elect some or all of the following courses in other departments: Biology 12, Geology 7, Mathematics 7, Physics 6 and 7.

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## ECONOMICS AND SOCIAL SCIENCE.

PROFESSORS TUTTLE, FISHER, AND WILLIAMSON; MR. ELIOT.

1. PRINCIPLES OF ECONOMICS. This course gives the student a scientific analysis of modern industrial society, and acquaints him with the principles of political economy and correct methods of analysis. The aim is to give, first, discipline in habits of scientific thinking in regard to all social phenomena, and, second, perspective and a basis of sound knowledge for further and more intensive study in the general field of economics and social science. The means of instruction in this and in the other courses in economics are textbooks, lectures, discussions, reports, collateral reading, and frequent written tests. SECTIONS 1, 2 and 3, *Mon., Wed., Fri., at 9.* 14, 12, and 31 F. H. SECTION 4, *Mon., Wed., Fri., at 1.* 11 F. H. PROFESSORS FISHER and WILLIAMSON, and MR. ELIOT. (II)

Course 1 is elective for Sophomores.

[2. ECONOMIC HISTORY. Industrial and commercial development from the middle of the eighteenth century to the Great War. The course begins with the history of the industrial revolution, and includes the study of international trade, the free trade movement in England, protectionism in France, Germany, and the United States, railways and waterways, trans-oceanic competition, agriculture and manufacturing, particularly the rise of the steel and textile industries in Western Europe, England, and the United States. *Three times a week.* MR. ELIOT.]

Course 2 is elective for those who have taken Course 1, and, with the permission of the instructor, for those who are taking Course 1. It is omitted in 1923-24.

3. CORPORATIONS, TRUSTS, AND MONOPOLIES. The first part of the course consists of a study of the modern corporation as a form of business organization. The corporation is contrasted with the sole-proprietorship, the partnership, and the joint-stock company. Attention is given to the various phases of corporation finance, including production; administration of income; expansion; failure and reorganization. The trust problem is approached with an historical survey of pools, trusts, holding companies, mergers, and "communities of interest." The good and bad effects of monopoly are examined in connection with specific illustrations in the history of industrial expansion in the United States. Legislative enactments to regulate monopolies, and the results of such measures, are analyzed as means of social control. An attempt is made to formulate sound criteria for the solution of the "trust" problem. *Tu., Th., Sat., at 9.* 14 F. H. PROFESSOR FISHER. (VIII)

Course 3 is elective for Juniors who have received grade C— or better in Course 1, and for Seniors who have taken Course 1.

\*4. MONEY AND BANKING. This course is designed to include the more important aspects of money and banking, viewed in the light of current monetary and banking phenomena. An analytical approach is made to the consideration of the origin and development of money; the place of money in modern industrial society; value of money and principles of monetary circulation; paper money in theory and practice, with especial reference to the greenbacks in the United States; the gold standard, its basis and evolution; monometallism and bimetallism; the gold exchange standard; domestic and foreign exchange. Banking is analyzed as to theory and practice. The banking systems of the leading European countries are contrasted with the banking system of the United States in the past and with that now in operation. Savings banks, trust companies and coöperative banking enterprises are studied briefly, but the emphasis of the course is placed upon an analysis and appraisal of the federal reserve banking system. *Tu., Th., Sat., at 11.* 14 F. H. PROFESSOR FISHER. (X)

Course 4 is elective, with the permission of the instructor, for those who have received grade C—or better in Course 1.

5. PUBLIC FINANCE. This course covers, in a general manner, the entire field of public finance, but pays special attention to taxation. Public expenditures, revenues from various sources, public debts, and budgets will be studied with reference both to theory and to the practice of various nations. *Mon., Wed., Fri., at 11.* 14 F. H. PROFESSOR WILLIAMSON. (IV)

Course 5 is elective for Juniors who have received grade C—or better in Course 1, and for Seniors who have taken Course 1.

\*6. STATISTICS AND ACCOUNTING. The first part of this course deals with the collection, presentation, analysis and interpretation of economic statistics. Attention is given to tabulating data, the use and construction of graphs and diagrams, frequency-distributions, computation and use of averages, index numbers, dispersion, analysis of time-series, and the elements of business forecasting. A critical examination is made of modern statistical practice, and the sources of statistics are pointed out and evaluated. Besides lectures and class-room discussions, section exercises are conducted to give practice in statistical method, and in the diagrammatic and graphical presentation of data. The second part of the course presents the principles and methods of accounting. Accounting terminology and the meaning of various accounts are studied. The construction and analysis of balance sheets and income statements are covered. Special attention is given to the treatment of costs, depreciation funds, reserves, surpluses, profits, etc. The work is carried on by means of lectures, class-room discussions, and outside problems. *Mon., Fri., at 1, and two laboratory hours, four hours counting as three.* 37 F. H. and Statistical Laboratory in O. H. PROFESSOR WILLIAMSON. (V)

Course 6 is elective, with the permission of the instructor, for those who have completed two courses in the department with grade C—or better.

Students interested in mathematics are advised to take Mathematics 9 and 10 either the year after, or the same year as, they take Economics 6.

7. **LABOR, SOCIALISM, AND SOCIAL REFORM.** The evolution of the modern industrial laborer, and his position under the wages system. The *laissez-faire* policy and the rise of the factory system. Socialism; the important socialistic theories and the socialistic movement. Social reform; theory of social reform, and practical movements and programs which aim to improve the industrial laborer's place in industry and society. Special attention is given to coöperation, profit sharing, trade unionism and its policies, collective bargaining, industrial arbitration, scientific management, labor legislation, industrial government, and other aspects of the problem of the place of the laborer in industry. The work is carried on by means of lectures, reports, discussions, and frequent written tests on assigned readings. *Mon., Wed., Fri., at 9.* 11 F. H. PROFESSOR TUTTLE. (II)

Course 7 is elective for Juniors who have received grade C— or better in Course 1, and for Seniors who have taken Course 1.

8. **SOCIOLOGY.** The principles of sociology. A study of the evolutionary background of our contemporary society, and an analysis of the forces and factors shaping social institutions and determining human welfare. A discussion of selected problems, including poverty, crime, immigration and the race question, etc. Lectures, reports, discussions and written tests on assigned reading. *Tu., Th., Sat., at 10.* 31 F. H. MR. ELIOT. (IX)

Course 8 is elective for Juniors who have received grade C— or better in Course 1, and for Seniors who have taken Course 1.

9. **ADVANCED ECONOMICS.** Analytical, critical, and evolutionary study of economic concepts and doctrines in the interest of consistent and constructive economic theory. Readings in the works of economists, and lectures and discussions on current tendencies and the distinctive contributions of the several schools of modern economic thought. *Mon., Wed., Fri., at 2.* 31 F. H. PROFESSOR TUTTLE. (VI)

Course 9 is elective for those who have received grade C— or better in Course 1. Students majoring in economics are advised to take this course.

\*10. **ECONOMICS SEMINARY.** Subject for 1923-24: Problems of Capital. A problem for individual investigation and report is chosen by the student. The student works under the direction and supervision of the instructor, is expected to report weekly on the progress made, and finally to prepare a thesis exhibiting the results of the year's research. *Mon., 7-10 p. m., counting as three hours for the year.* 10 F. H. PROFESSOR TUTTLE.

Course 10 is elective, with the permission of the instructor, for those Seniors who have shown, in earlier courses in the department, the ability to undertake individual research.

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## ENGLISH.

PROFESSORS MEAD, FARLEY, CONLEY, AND WOODBRIDGE; ASSISTANT PROFESSORS SNOW AND CRECRAFT; MR. TELFER.

1. **ENGLISH COMPOSITION.** Each member of the class is required to write numerous themes, making practical application of various rhetorical principles. These themes are criticised by the instructor and discussed with the pupil at hours specially appointed. Considerable collateral reading is assigned which furnishes models of the various types of writing. Attendance at the consultation hour is required. SECTION 1, *Mon., Wed., Fri., at 8*; SECTION 2, *Tu., Th., Sat., at 8*; SECTIONS 3 and 8, *Mon., Wed., Fri., at 10*; SECTION 4, *Tu., Th., Sat., at 10*; SECTION 5, *Mon., Wed., Fri., at 11*; SECTION 6, *Tu., Th., Sat., at 11*; SECTION 7, *Mon., Wed., Fri., at 1*. SECTIONS 1, 5, 7, 29 F. H.; SECTION 2, 28 F. H.; SECTION 3, 11 F. H.; SECTIONS 4, 6, 37 F. H.; SECTION 8, 14 F. H. PROFESSOR CONLEY; ASSISTANT PROFESSORS SNOW AND CRECRAFT; MR. TELFER. (VI)

Course 1 is required of Freshmen.

[\*2. **NARRATIVE WRITING.** In this course a large number of narrative papers varying in length are required. Collateral reading in the short story is assigned, and some time is devoted to discussion of the reading. *Twice a week.* PROFESSOR CONLEY.]

Course 2 is elective, with the permission of the instructor, for those who have taken Course 1. It is omitted in 1923-24.

3. **ENGLISH COMPOSITION.** A study of various types of composition, with constant practice in theme-writing. Each member of the class is required to present on an average at least one thousand words a week. None of the essays may be omitted, and most of them are required to be rewritten. The written work is criticised in the class-room, and also at hours appointed by the instructor for personal conference. Thursday at 3 is reserved for criticism. *Tu., at 3 (counting as two hours).* 29 F. H. PROFESSOR MEAD. (XVII)

Course 3 is elective for Sophomores.

4. **ARGUMENTATION.** A course in the theory and practice of argument, designed to train students in the discovery and proper use of materials, in logical methods of thinking, and in clear, forceful expression. The work comprises the study of a text, the preparation of briefs, the writing and delivery of arguments both formal and informal, and practice in debate. The course, to some extent, is co-ordinated with the public debates of the college. *Mon., Wed., Fri., at 8.* Room B, F. H. ASSISTANT PROFESSOR CRECRAFT. (I)

Course 4 is elective for Sophomores who have taken, or are taking, Philosophy I; for others, with the permission of the instructor.

5. **HISTORY OF THE ENGLISH LANGUAGE.** The aim of this course is to show in lectures and class discussions how English life and culture are illustrated by changes in the meaning of words since the Norman Conquest. Special attention is given to the formation of a working English vocabulary. As far as possible the work is brought into connection with the study of literature. The collateral work involves the use of various books of reference, and in particular of Krapp's *Modern English* and Skeat's *Concise Etymological Dictionary*. *Mon., Wed., Fri., at 9.* 29 F. H. PROFESSOR MEAD. (II)

Course 5 is elective for Juniors.

6. **GENERAL INTRODUCTION TO ENGLISH LITERATURE.** Reading and discussion of representative works illustrating

different varieties and periods of English literature. SECTION 1, *Tu., Th., Sat., at 8.* 29 F. H. SECTION 2, *Tu., Th., Sat., at 9.* 12 F. H. SECTION 3, *Tu., Th., Sat., at 10.* 29 F. H. PROFESSORS FARLEY and WOODBRIDGE, and ASSISTANT PROFESSOR SNOW. (XVI)

Course 6 is elective for Sophomores.

7. SHAKESPEARE. Lectures, discussions, and collateral reading. Fifteen or sixteen plays are studied without minute attention to the text. *Tu., Th., Sat., at 11.* 29 F. H. PROFESSOR WOODBRIDGE. (X)

Course 7 is elective for those who have taken Course 6.

[8. OLD ENGLISH (Anglo-Saxon). An elementary course in Old English, accompanied by a brief course in the history of the English language. A competent acquaintance with Old English is fundamental to the study of the English language and of the early English literature. The principal reading at the outset is in the Gospel of St. John. The grammar is drawn from Cook's First Book in Old English, with copious illustrations and explanations based upon the texts read. The books needed are: Cook, A First Book in Old English; Bright, The Gospel of John in West Saxon; Bradley, The Making of English. *Three times a week.* PROFESSOR MEAD.]

Course 8 is elective for Sophomores, but those only are advised to elect it who have shown some aptitude for the study of language and have formed habits of accuracy. It is omitted in 1923-24.

[9. OLD ENGLISH (Anglo-Saxon). An advanced course in Old English prose and poetry. The first half-year is mainly occupied with historical prose and war poetry, and the second half-year with Beowulf. Lectures illustrated by lantern slides discuss the main features of Old English civilization. *Twice a week.* PROFESSOR MEAD.]

Course 9 is elective for Juniors. It is omitted in 1923-24.



10. THE AGE OF CHAUCER. Readings in Chaucer, principally in the Canterbury Tales, with lectures on Chaucer's literary methods and sources, and the development of English literature in the fourteenth century. *Wed., Fri., at 2.* 29 F. H. PROFESSOR MEAD. (XVII)

Course 10 is elective for those who have taken English 6.

11. ARTHURIAN ROMANCES. The sources and history of the Arthurian Romances. Class readings in some of the better known forms of Arthurian story, such as Tennyson's Idylls of the King, and their sources, and lectures on the older literature that furnished material to Tennyson and other modern poets. The social conditions out of which the romances grew receive special attention, and the life of the Middle Ages is discussed in lectures, illustrated by lantern slides. *Tu., Th., at 9.* 29 F. H. PROFESSOR MEAD. (VIII)

Course 11 is elective for Juniors.

[12. SHAKESPEARE. Six plays. *Three times a week.*]

Course 12 is elective for those who have taken Course 6. It is omitted in 1923-24.

13. ENGLISH LITERATURE OF THE EIGHTEENTH CENTURY. Lectures, discussions, collateral reading, critical reports. The course includes the chief poets and prose writers between Dryden and Wordsworth. *Mon., Wed., Fri., at 2.* 23 F. H. MR. TELFER. (VI)

Course 13 is elective for those who have taken Course 6.

14. ENGLISH POETS AND ESSAYISTS OF THE ROMANTIC PERIOD. Interpretation and discussion of texts; lectures; critical reports. The authors studied are Wordsworth, Coleridge, Byron, Shelley, Keats, Lamb, Hazlitt. *Mon., Wed., Fri., at 10.* 23 F. H. PROFESSOR FARLEY. (III)

Course 14 is elective for those who have taken Course 6.

[15. ENGLISH POETS AND ESSAYISTS OF THE VICTORIAN PERIOD. Interpretation and discussion of texts; lectures; critical reports. The authors studied are Carlyle, Tennyson,

Ruskin, Arnold (verse and prose), Browning. *Three times a week.* PROFESSOR FARLEY.]

Course 15 is elective for those who have taken Course 6. It is omitted in 1923-24.

16. AMERICAN LITERATURE. Lectures; interpretation and discussion of texts; collateral reading; critical reports. The course considers the more notable poets and prose writers of America, beginning with the colonial period and continuing to the end of the nineteenth century. *Mon., Wed., Fri., at 8.* 23 F. H. PROFESSOR FARLEY. (I)

Course 16 is elective for those who have taken Course 6.

[17. THE ENGLISH DRAMA. An historical survey, from the miracle plays to the end of the nineteenth century. *Three times a week.*]

Course 17 is elective for those who have taken Course 6. It is omitted in 1923-24.

[18. THE ENGLISH ESSAY. The development of the essay, with a study of models and an examination of the principles of style. This is a practical course, with close criticism and rewriting of papers, and is designed for students who are prepared to do advanced work. *Twice a week.* PROFESSOR MEAD.]

Course 18 is elective for Juniors. It is omitted in 1923-24.

19. THE ENGLISH NOVEL. Lectures and recitations on the work of the more important novelists of the eighteenth and nineteenth centuries; collateral readings, class discussions, and written reports. *Mon., Wed., Fri., at 11.* 23 F. H. PROFESSOR CONLEY. (IV)

Course 19 is elective for those who have taken Course 6. The second semester may be elected separately with the permission of the instructor.

20. MODERN DRAMA. A study of the more significant tendencies in dramatic writing, beginning with Ibsen. The course aims to give the student an acquaintance with the chief

types of modern drama and with representative works of the more important writers. The first semester is devoted to continental drama; the second to English, Irish, and American. Lectures, discussions, reports. *Tu., Th., at 8.* 23 F. H. PROFESSOR WOODBRIDGE. (VII)

Course 20 is elective for those who have taken Course 6.

[21. THE ELEMENTS OF LITERARY CRITICISM. A study of the qualities essential to various forms of good literature, and of the principles that are fundamental to sound critical judgment. About half the course is devoted to a consideration of the significance of poetry as a means of expression, and of the methods by which the poet achieves his effects. *Twice a week.* PROFESSOR FARLEY.]

Course 21 is elective for those who have taken Course 6. It is omitted in 1923-24.

\*22. SEMINARY IN ENGLISH LITERATURE. In 1923-24 the subject for special study is the English Renaissance, from its beginnings in the time of Henry VII to its culmination under Elizabeth. The principal movements of the period, including humanism, the reformation, puritanism, and the forces opposing them, as reflected in the literature of the sixteenth century, and the important writers—Erasmus, More, Lyly, Sidney, Spenser, Marlowe, Shakespeare, and others—are discussed. Some consideration of the drama of the period is included. *Wed., Fri., 7:00-8:30 p. m., counting as three hours.* PROFESSOR CONLEY.

Course 22 is elective, with the permission of the instructor, for those who have taken Course 6 and one other year-course in English literature.

\*23. ADVANCED COMPOSITION. A course intended for students who have attained some proficiency in writing. The work consists chiefly of planning and writing rather long compositions of various sorts. Each member of the class is expected to complete some definite literary undertaking of his own choice. Only incidental attention is given to the mechanics of style. *Tu., Th., at 2.* 23 F. H. PROFESSOR WOODBRIDGE. (XII)

Course 23 is elective, with the permission of the instructor, for Juniors.

24. MODERN ENGLISH AND AMERICAN POETRY. The 1890 group; Walt Whitman and his influence; a modern English group, including Hardy, Thompson, Masfield, and Gibson; the free verse movement; the Irish Renaissance; the new American poetry. Lectures, assigned readings, papers, and class discussions. *Tu., Th., Sat., at 11 (second half-year).*  
23 F. H. ASSISTANT PROFESSOR SNOW. (X)

Course 24 is elective for those who have taken Course 6.

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## ETHICS AND RELIGION.

PROFESSOR CHANTER.

1. THE ENGLISH BIBLE. An introductory course. The object of the course is to give a knowledge of the main outlines of the biblical literature, with sufficient attention to the results of critical scholarship to place the student in touch with the modern view of the value and authority of the Bible. SECTION 1, *Mon., Wed., Fri., at 8*; SECTION 2, *Tu., Th., Sat., at 9*. 28 F. H. (I)

Course 1 is elective for Freshmen.

2. ETHICS. An introductory course. First semester: Outlines of ethical theory. Second semester: Problems of individual and social ethics. *Mon., Wed., Fri., at 10*. 28 F. H. (III)

Course 2 is elective for Juniors.

[3. THE PHILOSOPHY OF RELIGION. The rise and development of the principal religions and religious ideas. *Three times a week.*]

Course 3 is elective for Juniors. It is omitted in 1923-24.

[\*4. SEMINARY IN THE HISTORY OF ETHICS. Studies in the great periods of ethical thought. *Two hours a week.*]

Course 4 is elective, with the permission of the instructor, for those who have taken Course 2, or Courses 2 and 3 in philosophy. It is omitted in 1923-24.

## GEOLOGY.

ASSOCIATE PROFESSOR FOYE.

1. **PHYSIOGRAPHY.** The study of the earth's surface, and the forces which have moulded it into its present form. Lectures, *Mon., Wed., Fri., at 10.* Laboratory, *Tu., Th., or Fri., 2-5 (first half-year).* 8 J. H. (III)

Course 1 is elective for Freshmen.

2. **STRUCTURAL GEOLOGY.** The minerals and rocks forming the earth's crust, their structure, and the forces which have formed and altered them. Field trips every Saturday after April 1. Lectures, *Mon., Wed., Fri., at 10.* Laboratory, *Tu., Th., or Fri., 2-5 (second half-year).* 8 J. H. (III)

Course 2 is elective for those who have taken Course 1, and who take, or have taken, Chemistry 1 or 2.

3. **METEOROLOGY.** A course designed to give a knowledge of the laws controlling weather and climate. Lectures, *Mon., Wed., Fri., at 11.* Laboratory, *Mon., 2-5 (first half-year).* 8 J. H. (IV)

Course 3 is elective for those who have taken, in school or college, a course each in chemistry and physics.

[4. **ECONOMIC GEOLOGY.** A study of the natural resources occurring within the earth's crust. Lectures, recitations, and reports. *Three times a week (first half-year).*]

Course 4 is elective for those who have taken Courses 1 and 2. It is given in alternate years with Course 3 and is omitted in 1923-24.

5. **HISTORICAL GEOLOGY.** The history of the earth as revealed in the sedimentary rocks. Lectures and laboratory work. *Mon., Wed., Fri., at 11.* Laboratory, *Mon., 2-5 (second half-year).* 10 J. H. (IV)

Course 5 is elective for those who have taken Courses 1 and 2 or the first half of Biology 9.

[6. **REGIONAL GEOLOGY OF THE UNITED STATES.** The geography, historical and economic geology of limited portions of the United States. *Three times a week (first half-year).*]

Course 6 is elective for those who have taken Courses 1, 2, and 5. It is given in alternate years with Courses 7 and 8, and is omitted in 1923-24.

7. CRYSTALLOGRAPHY AND DETERMINATIVE MINERALOGY. A study of the crystallography and chemistry of the commoner minerals. Lectures, *Mon., Wed., Fri., at 9.* Laboratory, *four hours at the convenience of the student (first half-year).* The course counts as *four* hours. 10 J. H. (II)

Course 7 is elective for those who have taken solid geometry, and a college course in chemistry.

8. DESCRIPTIVE MINERALOGY. The properties, occurrences, and uses of the commoner minerals. Lectures, *Mon., Wed., Fri., at 9.* Laboratory, *four hours at the convenience of the student (second half-year).* The course counts as *four* hours. 10 J. H. (II)

Course 8 is elective for those who have taken Course 7.

\*9. GEOLOGY SEMINARY. Lectures, readings, and reports on field and laboratory problems in structural geology. *Tu., Th., Sat., at 10 (second half-year).* J. H. (IX)

Course 9 is elective, with the permission of the instructor, for those who have taken Courses 1, 2, 5, and 6.

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## GERMAN.

PROFESSORS CAMPBELL AND CURTS; MR. GROPP.

I. ELEMENTARY. An introduction to grammar and composition. Reading of easy narrative prose, with practice in sight translation. SECTIONS 1 and 2, *Mon., Wed., Fri., at 8;* SECTIONS 3 and 4, *Tu., Th., Sat., at 10.* 11 and 12 F. H. PROFESSORS CAMPBELL and CURTS, and MR. GROPP. (XV)

Candidates for the degrees of Ph. B. and B. S. are required to complete the equivalent of German 1 and 2, as well as French 1 and 2. Such of these courses as they have not taken and passed before entering college, they must take as soon as practicable after entering.

2. INTERMEDIATE. Reading of narrative and dramatic prose and poetry, with a review of elementary grammar, accompanied by prose composition. SECTION 1, *Mon., Wed., Fri., at 1.* 39 F. H. SECTION 2, *Tu., Th., Sat., at 8.* 12 F. H. PROFESSOR CAMPBELL and MR. GROPP. (XV)

Course 2 is elective for those who have taken Course 1, or who have passed elementary German for admission.

3. ADVANCED. Further reading of narrative and dramatic prose and poetry with emphasis upon the historical and literary significance of the texts. Two or three works are assigned for outside reading and made the basis of written reports. There is a brief review of German grammar and work in prose composition. As emphasis is laid on a practical training in the language, German is used in the class as far as is convenient. SECTIONS 1 and 2, *Mon., Wed., Fri., at 10.* 12 F. H. PROFESSORS CAMPBELL and CURTS. (III)

Course 3 is elective for those who have taken Course 2, or who have passed intermediate German for admission, and for others with the permission of the instructor.

4. SCIENTIFIC. Reading from German scientific literature. In so far as possible, such selections are made for class reading as will emphasize the unity and correlation of the natural sciences and at the same time give the student some of the latest phases of German scientific thought and method. The class work is supplemented by parallel assignments from standard articles in that particular science in which the student is specializing. *Mon., Wed., Fri., at 11.* 12 F. H. PROFESSOR CURTS. (IV)

Course 4 is elective for those who have taken Course 2, or who have passed intermediate German for admission. An elementary knowledge of physics and chemistry is advisable.

5. GERMAN LANGUAGE AND CIVILIZATION. This course aims to give the student opportunity to acquire fluency in the correct use of the German language through reading, conversation, and written exercises. The materials for reading and discussion deal with the Germany of to-day, its political organization, institutions, and customs, with some reference to their

development. All class exercises and papers are in German. *Tu., Th., Sat., at 9.* 39 F. H. MR. GROPP. (VIII)

Course 5 is elective for those who have taken Course 3 or its equivalent, and, with the permission of the instructor, for those who have taken Course 2.

6. LITERATURE OF THE CLASSICAL PERIOD. A study of the contribution of Lessing, Goethe, Schiller, and other writers of the period to the various phases of modern thought and to the development of modern literature, with lectures, class assignments, and parallel readings. The collateral reading is made the subject of written reports. *Tu., Th., Sat., at 8.* 36 F. H. PROFESSOR CURTS. (VII)

Course 6 is elective for those who have taken Course 3 or its equivalent.

[7. LITERATURE OF THE EARLY NINETEENTH CENTURY. This course is an introduction to the study of the German romantic movement, in itself and in its relation to classicism and realism. The lectures cover the chief literary works, and include a discussion of the philosophical, æsthetic, and religious views of the period, and of the broader tendencies underlying the movement, recent theories on the subject being given consideration. Neo-romantic tendencies in modern literature likewise receive attention. Appropriate illustrative reading is assigned for class-room and for private study. *Three times a week.* PROFESSOR CAMPBELL.]

8. LITERATURE OF THE LATER NINETEENTH CENTURY. This course is an introduction to the study of realism in modern German literature: Young Germany, the poetic realists, and naturalism. It is conducted on the plan of Course 7, by lectures, with illustrative material in class and for private study. *Mon., Wed., Fri., at 11.* 36 F. H. PROFESSOR CAMPBELL. (IV)

Courses 7 and 8 are given in alternate years, and are elective for those who have taken Course 3 or its equivalent. Course 7 is omitted in 1923-24.

[9. HISTORY OF GERMAN LITERATURE. A course of lectures covering the history of the literature in outline from the earliest period to the time of Goethe, with parallel readings.]



[10. MIDDLE HIGH GERMAN. The purpose of the course is to enable the student to obtain a good reading knowledge of the literary language of Germany about the year 1200. The basis of the work is the Nibelungenlied, of which considerable portions are translated into modern German. Some study is made of the Nibelungen "saga," both as a part of the regular assignments and by way of lectures by the instructor. Some of the lyrics of the period are also read.]

Courses 9 and 10 are elective for those who have taken Course 3 or its equivalent. They are omitted in 1923-24.

## GREEK.

PROFESSORS HEIDEL AND HEWITT.

A BEGINNERS' COURSE. Grammar and exercises; Xenophon,—Anabasis. *Mon., Wed., Fri., at 1; Tu., at 2.* 31 F. H. PROFESSOR HEWITT. (V)

Credit for Course A will be given only to students who attain in it a grade of C— or above and subsequently pass Course B and Course 1 in Greek.

B HOMER, —Odyssey. *Tu., Th., at 8 (first half-year).* 37 F. H. PROFESSOR HEIDEL. (VII)

Course B is intended for students who have taken Course A or its equivalent, but have read little or no Homer.

1. PLATO,—Euthyphro, Apology, and Crito; XENOPHON,—Selections from the Memorabilia; LYSIAS,—Selected Orations. *Mon., Wed., Fri., at 8.* 37 F. H. PROFESSOR HEIDEL. (I)

Course 1 is intended for students who have completed the entrance requirements in Greek, or Courses A and B. It may, however, be taken by those who have completed only Course A, or its equivalent, provided that they have attained a grade of C— or above, and are taking Course B.

Course 1 in Greek, or Course 1 in Latin, is required of candidates for the B. A. degree.

2. EURIPIDES,—Alcestis; ARISTOPHANES,—Clouds; LUCIAN,—Selections. *Mon., Wed., at 8.* 7 S. C. PROFESSOR HEWITT. (I)

Course 2 is elective for those who have taken Course 1.

[3. GREEK PROSE COMPOSITION. *Twice a week (second half-year).* PROFESSOR HEIDEL.]

Course 3 is elective for those who take, or have taken, Course 2.

4. HISTORY OF GREEK LITERATURE. Recitations, lectures, and collateral reading are supplemented by a more intensive study of selected portions of the literature. Especial stress is laid upon the relation between the Greek and English literatures, with respect both to literary form and to subject matter. Knowledge of Greek is not required. *Tu., Th., at 9.* 37 F. H. PROFESSOR HEWITT. (VIII)

Course 4 is elective for Juniors, and for Sophomores who are taking Course 2.

Courses 3 and 4 are given in alternate years. Course 3 is omitted in 1923-24.

5. PLATO, — Protagoras; DEMOSTHENES, — The Oration on the Crown. Collateral study of Greek rhetoric and oratory. *Mon., Wed., Fri., at 11 (first half-year).* 32 F. H. PROFESSOR HEIDEL. (IV)

6. THE GREEK LYRIC POETS, — including selections from Pindar and Bacchylides. *Mon., Wed., Fri., at 11 (second half-year).* 32 F. H. PROFESSOR HEIDEL. (IV)

Courses 5 and 6 are elective for those who have taken Course 2.

[7. AESCHYLUS, — Prometheus Bound. SOPHOCLES, — Oedipus the King, and Antigone. Lectures and collateral reading on the Greek theatre (*first half-year*). EURIPIDES, — Ion and Cyclops. ARISTOPHANES, — Birds. Collateral reading on the Greek drama (*second half-year*). *Three times a week.* PROFESSOR HEIDEL.]

Course 7 is elective for those who have taken Course 2. It is omitted in 1923-24.

[8. NEW TESTAMENT IN GREEK. *Twice a week (first half-year).* PROFESSOR HEWITT.]

Course 8 is elective for those who take, or have taken, Course 2. It is omitted in 1923-24.

[9. GREEK CIVILIZATION. Lectures and collateral reading on the political institutions, the art, religion, and scientific thought of ancient Greece in relation to modern civilization. Knowledge of Greek is not required. *Three times a week.* PROFESSOR HEIDEL.]

Course 9 is elective for Juniors. It is omitted in 1923-24.

10. PLATO,—Phaedo and Symposium. *Mon., Wed., Fri., at 10 (first half-year).* 32 F. H. PROFESSOR HEIDEL. (III)

11. ARISTOTLE,—Metaphysics. *Mon., Wed., Fri., at 10 (second half-year).* 32 F. H. PROFESSOR HEIDEL. (III)

Courses 10 and 11 are elective for those who have taken Courses 5 and 6, or Course 7.

## HISTORY AND GOVERNMENT.

PROFESSORS DUTCHER AND WRISTON; ASSISTANT PROFESSORS  
LANCASTER AND CHASE.

### HISTORY

I. ENGLISH HISTORY. The history of England from the earliest times to the present day. Cross's Shorter History of England and Greater Britain, Wakenan's History of the Church of England, Adams's Constitutional History of England, and a selection from Adams and Stephens's Select Documents of English Constitutional History. Lectures and recitations. *Tu., Th., at 11 (34 S. L.), also a third hour in sections. SECTIONS 1, 2, 3, 4, Fri., at 9, 10, 11, 1. SECTIONS 5, 6, Sat., at 10, 11. SECTIONS 7, 8, 9, Mon., at 9, 10, 11. Room B, F. H. (Section 4 in 14 F. H.) PROFESSOR DUTCHER and ASSISTANT PROFESSOR CHASE.* (X)

Course 1 is elective for Freshmen. This course, and Ethics 1, are the only courses in the second required group of studies (see p. 118) open to Freshmen. Owing to its elementary character this course should be elected not later than the Sophomore year. History 1 or Government 1 is prerequisite to the advanced courses in history and government.

History 2, 3, 4, and 5 are open, in the Sophomore year, only to those who have passed History 1 with a grade of C- or better.

Students electing to make their major study in the department of history and government must take either History 1 or Government 1 not later than the Sophomore year and must then complete the nine hours required for a major by taking in this department three courses closely related chronologically or topically, e. g.: History 3, 4, 5; History 2, 7, 8; History 2, 5, 8; History 5, 8, Government 6; History 7, 8, Government 5; Government 2, 3, 4.

N. B. For History 2, 3, 4, 5, 6, and Government 3, 6, ability to read at least one modern language besides English is almost indispensable.

[2. HISTORY OF THE EXPANSION OF EUROPE. First semester: Portuguese, Spanish, French, Dutch, and English exploration, trade, and colonization in America, Africa, and Asia from the time of Henry the Navigator to the middle of the eighteenth century, with special attention to the administrative systems, the regulation of trade and industry, the treatment of weaker races, the activities of Christian missionaries, and similar problems. Second semester: a similar study of the period since the middle of the eighteenth century, with special reference to the English in India, Canada, Australia, and South Africa, to the Dutch in the East Indies, to the liberation of South America, and to the partition of Africa. Lectures, recitations, and essays. *Three times a week.* PROFESSOR DUTCHER.]

Course 2 is elective for Sophomores who have attained a grade of C— in Course 1, and for Juniors and Seniors who have taken any course in history or government. This course alternates with Course 7, and is omitted in 1923-24.

3. ANCIENT HISTORY. First semester: after a brief survey of the earliest times, the history of Greece from the beginning of the Persian wars, and of Rome from the beginning of the Punic wars, is carried to 133 B. C. Second semester: the history of the Roman republic after 133 B. C., of the Roman empire, and of the so-called Dark Ages to the death of Charles the Great, 814 A. D., with special attention to the rise of Christianity and of Mohammedanism. Botsford's *History of the Ancient World*, supplemented by other books on special periods. Lectures, recitations, and essays. *Mon., Wed., Fri., at 10.* 15 F. H. PROFESSOR DUTCHER. (III)

Course 3 is elective for Sophomores who have attained a grade of C— in Course 1, and for Juniors and Seniors who have taken any course in history or government, or who are taking their major in Greek or Latin. By special permission of the instructor, either semester may be elected separately, though it is strongly advised that the course be taken as a whole. Courses 3 and 4 are given in alternate years, Course 4 being omitted in 1923-24.

[4. MEDIAEVAL HISTORY. First semester: from the death of Charles the Great, 814 A. D., to the close of the thirteenth century, with the empire, the papacy, and France as the central factors, and with special attention to feudalism, the crusades, and the rise of the towns. Second semester: the development of culture and of the vernacular literatures, the rise of the universities, the renaissance, the age of discovery, the protestant reformation, the counter-reformation, and the wars of religion, to the treaties of Westphalia, covering approximately from 1300 to 1660. Emerton's Mediaeval Europe and Beginnings of Modern Europe, supplemented by other books on special periods. Lectures, recitations, and essays. *Three times a week.* PROFESSOR DUTCHER.]

Course 4 is elective for Sophomores who have attained a grade of C— in Course 1, and for Juniors and Seniors who have taken any course in history or government. This course alternates with Course 3 and is omitted in 1923-24.

5. MODERN EUROPEAN HISTORY. First semester: the age of Louis XIV, the rise of Russia and of Prussia, the enlightened despotism, the French revolution, and the Napoleonic era. Second semester: the Holy Alliance, the revolutionary movements, the development of constitutional government, the unification of Germany and of Italy, with special attention to the more important events and movements since 1870. Stephens's Syllabus of Modern European History, Robinson and Beard's Readings in Modern European History, Hayes's Political and Social History of Modern Europe, and other books on special periods. Lectures, recitations, and essays. *Mon., Wed., Fri., at 8. 15 F. H.* PROFESSOR DUTCHER. (1)

Course 5 is elective for Sophomores who have attained a grade of C— in Course 1, and for Juniors and Seniors who have taken any course in history or government, or who are taking their major in German or Romance languages. In 1923-24 the second semester may be elected separately with the permission of the instructor.

\*6. HISTORY SEMINARY. Topics for individual research and report are regularly assigned, and the work of the student is subject to the constant supervision and criticism of the instructor. In the course of the year, each student is required, as a test of his ability to do research and to present his results in a correct and lucid manner, to prepare an essay or thesis of considerable length upon some topic studied in the course. During the year 1923-24, the course is devoted to studies in the history of Eastern Asia, with special reference to American policy. *Th., 7-10 p. m., counting as three hours for the year.* 10 F. H. PROFESSOR DUTCHER.

Course 6 is given alternately by Professors Dutcher and Wriston. In 1924-25 it will be given by Professor Wriston. It is elective, with the permission of the instructor, for Seniors who have shown, in earlier courses in the department, ability to do advanced work in history.

7. UNITED STATES HISTORY, 1750-1829. First semester: the French and Indian war, the English colonial system and the struggle precipitated by the attempts of George III. and his ministers to remodel it, the war for independence, the confederation, the framing and ratification of the state and federal constitutions. Second semester: the first six presidents, their personalities, problems, and policies, the problem of relations with Europe, the war of 1812, the Monroe doctrine, national expansion, growth of democracy. The important constitutional, political, economic, and social developments are emphasized. Channing's History of the United States, volumes 2, 3, 4 and 5, and other works. Lectures, recitations, and essays. *Tu., Th., Sat., at 10.* 15 F. H. PROFESSOR WRISTON. (IX)

Course 7 is elective for those who have taken any course in history, government, or economics. Courses 2 and 7 are given in alternate years, Course 2 being omitted in 1923-24.

8. UNITED STATES HISTORY, 1829-1921. First semester: The personalities, policies, and achievements of the more important presidents and political leaders, and the important constitutional, political, economic, and social developments to the close of the civil war. Second semester: Reconstruction, the new economic and social problems, the United States as a colonial and world power. Channing's History of the United States, Volume 5, Lingley's History of the United States since the Civil War, and other works. Lectures, recitations, and essays. *Tu., Th., Sat., at 8.* 15 F. H. PROFESSOR WRISTON. (VII)

Course 8 is elective for those who have taken any course in history, government, or economics.

9. AMERICAN GOVERNMENT. This course is now listed as Government 2. Students who have taken this course may not elect Government 1 or 2.

10. COMPARATIVE GOVERNMENT. This course is now listed as Government 3. Students who have taken this course may not elect Government 1 or 3.

## GOVERNMENT

1. INTRODUCTION TO ENGLISH AND AMERICAN GOVERNMENT. The national institutions of England are studied in the first semester, and of the United States in the second semester, with a view to illustrate the more important principles of government and their historical development. It is the aim of this course to point out the peculiar lines of development followed by England and the United States in the evolution of their legal and political systems, and, with this as a basis, to show the contributions of each country to the art of government. Discussions and reports. SECTION 1, *Mon., Wed., Fri., at 11*; SECTION 2, *Tu., Th., Sat., at 9.* 15 F. H. ASSISTANT PROFESSOR LANCASTER. (IV)

Course 1 is elective for Sophomores, and is intended to serve as a general introduction to the study of government. It is not elective for those who have taken History 9 or 10 or Government 2 or 3. History 1 or Government 1 is prerequisite to advanced courses in history and government.

2. AMERICAN GOVERNMENT. First semester: a survey of the development, organization, and nature of constitutional government in the United States. The actual operation of government will be illustrated by frequent reference to the decisions of the federal Supreme Court and by the use of concrete material bearing upon important administrative problems; attention is also paid to the rise, organization, and methods of political parties and to the part played by non-political interest groups in the formation and enforcement of policies. Second semester: the growth of the state constitutions, and the organization and operation of the state governments; local government and municipal administration; and the rights and obligations of citizens. In the treatment of the various topics the significance of the historical development is constantly emphasized, comparisons with other countries are made, and discussion is turned from time to time to the fundamental problems of systematic political theory. Discussions and reports. *Mon., Wed., Fri., at 9.*  
15 F. H. ASSISTANT PROFESSOR LANCASTER. (II)

Course 2 is elective for Juniors who have taken any course in history, government, or economics. It is not elective for those who have taken History 9.

3. COMPARATIVE GOVERNMENT. First semester: a review of the government of Great Britain followed by a systematic study of the constitutions, of the national, local, and municipal systems of administration, of political parties, and of the functions of government in France, Italy, and Germany, with special attention to the changes resulting from the World War. Second semester: a similar survey of the other European countries, of the Latin-American countries, of self-governing dependencies, of Japan, China, and India, with some consideration of colonial administration. The aim of the course is to present the development of constitutional government outside of the United States, and to study the internal problems of the more important countries, with constant attention to American parallels and to the problems of systematic political theory. The course is intended to give a clearer knowledge of the contemporary conditions of other countries, and to develop broader political views. Discussions



and reports. *Tu., Th., Sat., at 11.* 15 F. H. ASSISTANT PROFESSOR LANCASTER. (X)

Course 3 is elective for Juniors who have taken any course in history, government, or economics. It is not elective for those who have taken History 10.

4. POLITICAL THEORY. A study in systematic political science, with constant reference to the historical development of existing political institutions and governmental forms, and with special attention to the history of political theory. Discussions and reports. *Tu., Th., Sat., at 9.* 11 F. H. ASSISTANT PROFESSOR CHASE. (VIII)

Course 4 is elective for Juniors who have taken, or are taking, either Government 2 or 3. Courses 4 and 5 are given in alternate years, Course 5 being omitted in 1923-24.

[5. JURISPRUDENCE AND ELEMENTS OF LAW. A study of the historical development of the Roman and English systems of law; the basic concepts of law; theories of justice; and the application and enforcement of law, with some consideration of the law of property and of contracts and other topics affecting commercial transactions. This course is intended not for students who contemplate entering the legal profession, but as a general introduction to law for those who are looking forward to business or non-legal professions. Discussions and reports. *Three times a week.* ASSISTANT PROFESSOR CHASE.]

Course 5 is elective for Juniors who have taken one course each in government and economics. Courses 4 and 5 are given in alternate years, Course 5 being omitted in 1923-24.

6. INTERNATIONAL RELATIONS. A study of international relations, their origin, nature, and historical development; the material and moral factors involved; methods of control. The most important questions which have affected the development of international law since 1898 are surveyed, and outstanding problems in current international relations are the subject of regular investigation and discussion. *Mon., Wed., Fri., at 1.* 15 F. H. PROFESSOR WRISTON. (V)

Course 6 is elective for those who have taken, or are taking, History 5 and 8, or Government 2 and 3.

## LATIN.

PROFESSORS HARRINGTON, NICOLSON, AND HEWITT.

1. SELECTIONS FROM LIVY (*first-half year*). HORACE,—Selections from the Odes and Epodes (*second half-year*). SECTION 1, *Mon., Wed., Fri., at 10*; SECTION 2, *Mon., Wed., Fri., at 11*. 31 F. H. PROFESSORS NICOLSON and HEWITT. (IV)

Course 1 in Latin or Course 1 in Greek is required of candidates for the degree of B.A.

2. CICERO,—Selected letters, to give a more intimate acquaintance with the history of Rome during the last two decades of the republic, and to compare colloquial with formal Latin. *Tu., Th., Sat., at 10 (first half-year)*. 32 F. H. PROFESSOR HARRINGTON. (IX)

Courses 2 and 4 are given in alternate years.

3. ROMAN COMEDY.—Selected plays of Plautus and Terence. *Tu., Th., Sat., at 10 (second half-year)*. 31 F. H. PROFESSOR HEWITT. (IX)

Courses 3 and 5 are given in alternate years.

[4. HORACE,—Satires and Epistles, to illustrate the social and literary standards of Rome at the beginning of the Empire. *Three times a week (first half-year)*. PROFESSOR HARRINGTON.]

Courses 2 and 4 are given in alternate years. Course 4 is omitted in 1923-24.

[5. PLINY THE YOUNGER,—Selected letters, to illustrate especially the state of Roman society at the close of the first century after Christ. *Three times a week (second half-year)*. PROFESSOR HEWITT.]

Courses 3 and 5 are given in alternate years. Course 5 is omitted in 1923-24.

Courses 2-5 are elective for those who have taken Course 1.

6. LATIN PROSE COMPOSITION. In this course the elementary principles of Latin style are studied and considerable amounts of English prose (dealing with subjects both ancient

and modern) are translated into Latin. *Once a week, the hour to be determined.* PROFESSOR NICOLSON.

Course 6 is elective for those who have taken Course 1.

[7. RAPID READING. The aim in this course is to read large amounts of comparatively easy Latin, with a view to acquiring facility in the use of the language. The selections for the first half-year are from poetry (Vergil, Plautus, Terence); in the second half-year from prose (Caesar, Suetonius, Gellius). A considerable part of the reading is done outside of class, and tested by written recitations. *Twice a week.* PROFESSOR NICOLSON.]

Course 7 is elective for those who have taken any two of Courses 2-5. It is given in alternate years with Course 10, and is omitted in 1923-24.

[8. ROMAN LITERATURE. A historical and critical survey of Roman literature from the third century B. C. to the fifth century A. D., given by means of lectures, a text-book dealing with the general subject, illustrative class-room readings in Latin and in English translations, and collateral reading. This course is designed primarily for students who desire a wider general acquaintance with the literature of the Romans and its relation to other literatures, without special emphasis upon its distinctly philological features. *Three times a week.* PROFESSOR HARRINGTON.]

Course 8 is elective for those who have taken any two of Courses 2-5. By special permission of the instructor it may be elected by a student who has shown good ability in Course 1, but has not taken any other course in Latin.

\*9. ROMAN ELEGIAC POETRY. The origin and development of the elegiac form. Selections from Catullus, Tibullus, Propertius, and Ovid. Practice in original research. Seminar methods are employed. *Tu., Th., Sat., at 11.* 32 F. H. PROFESSOR HARRINGTON. (X)

Course 9 is given in alternate years. It is elective, with the permission of the instructor, for those who have taken any two of Courses 2-5.

10. ROMAN SATIRE. From its beginnings through the Golden Age. Selections from Ennius, Lucilius, Varro, Horace, Persius, Juvenal, Petronius, Martial, and Apuleius; the Apocolocyntosis of Seneca; lectures on the earliest forms of the novel. *Mon., Fri., at 11.* PROFESSOR NICOLSON. (IV)

Course 10 is elective for those who have taken any two of Courses 2-5. It is given in alternate years with Course 7.

11. ROMAN PHILOSOPHY. Lucretius (selections); Cicero (selections from the *Academica*, *Tusculanae Disputationes*, *De Officiis*, *De Finibus*, *De Divinatione*, *De Natura Deorum*); Seneca (selected essays and epistles); lectures on the development of Roman philosophy. *Mon., Wed., Fri., at 8.* 32 F. H. PROFESSOR HARRINGTON. (I)

Course 11 is given in alternate years. It is elective for those who have taken any two of Courses 2-5.

12. ROMAN CIVILIZATION. Lectures and assigned reading on the public and private life of the Romans, with special emphasis upon the influence of Roman civilization on modern life, and with various parallels between the political and social tendencies of Rome and those of the present day. *Tu., Th., Sat., at 8 (second half-year).* 31 F. H. PROFESSOR HARRINGTON. (VII)

Course 12 is given in alternate years. It is elective for Juniors. Knowledge of Latin is not required.

[13. HISTORICAL LATIN GRAMMAR. Lectures on the historical development of Latin grammar, as regards both forms and syntax, with illustrative readings in inscriptions and in early Roman literature. *Three times a week (first half-year).* PROFESSOR HARRINGTON.]

Course 13 is given in alternate years. It is elective for those who have taken not less than 5 hours of Latin in college. It is omitted in 1923-24.

[\*14. MEDIAEVAL LATIN LITERATURE. Lectures introductory to the literature written in the universal language of the ecclesiastical and learned European world from the fifth century to the seventeenth century. Illustrative readings

from some of the most interesting examples of various types of prose and poetry, including history, satirical poetry, the epic, the lyric, the drama, the epistle, the novel. *Three times a week (second half-year).* PROFESSOR HARRINGTON.]

Course 14 is given in alternate years. It is elective, with the permission of the instructor, for those who have taken any two courses of Latin in college. It is omitted in 1923-24.

15. ROMAN ART. Illustrated lectures, with assigned collateral reading, involving the preparation of notebooks, and occasional written tests. The course is designed to set forth the development and achievements of the Romans in some of the most important fields of art, including architecture, relief (historical, mythical, and ideal), portrait sculpture, painting, ornamentation, mosaic, plate, gems, and cameos. *Tu., at 9.* 31 F. H. PROFESSOR HARRINGTON. (VIII)

Course 15 is given in alternate years. It is elective for Sophomores. Knowledge of Latin is not required.

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## MATHEMATICS.

PROFESSORS HOWLAND AND †CAMP; ASSISTANT PROFESSORS MATHEWS AND RAYNOR; MR. ARNOLD.

1. TRIGONOMETRY. The usual topics of elementary trigonometry, with special emphasis on the use of logarithms and the slide rule. SECTION 1, *Mon., Wed., Fri., at 8*; SECTION 2, *Mon., Wed., Fri., at 9*; SECTION 3, *Mon., Wed., Fri., at 11*; SECTION 4, *Tu., Th., Sat., at 8*; SECTION 5, *Tu., Th., Sat., at 9*; SECTION 6, *Tu., Th., Sat., at 10 (first half-year).* 25 and 26 O. H. ASSISTANT PROFESSORS MATHEWS and RAYNOR; MR. ARNOLD. (XIV)

Course 1 is elective for those who have not presented trigonometry for admission. On recommendation of the instructor, students who have presented trigonometry for admission may take this course, but in such cases it will count as only one hour for the year.

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†On leave of absence for the year.

2. MATHEMATICAL THEORY OF INVESTMENT. Theory of logarithms, graphs, progressions, interest, capitalization, annuities, valuation of bonds. Sections to be arranged (*second half-year*). 25 and 26 O. H. ASSISTANT PROFESSORS MATHEWS and RAYNOR; MR. ARNOLD. (XIV)

Course 2 is elective for those who have taken Course 1.

3. ANALYTIC GEOMETRY. The usual topics, including polar coördinates and conic sections. A half-year course given each half-year. SECTION 1, *Mon., Wed., Fri., at 8*; SECTION 2, *Mon., Wed., Fri., at 9*; SECTION 3, *Tu., Th., Sat., at 8*. 25 and 26 O. H. ASSISTANT PROFESSORS MATHEWS and RAYNOR; MR. ARNOLD. (XIV)

Course 3 is elective for those who have taken Course 1 or have presented trigonometry for admission. (See note following Course 1.)

4. ANALYTIC GEOMETRY AND ALGEBRA. The course is designed for those who have already had some elementary college mathematics, and who are preparing to take more advanced courses in this department or in the field of exact science. Courses 3 and 4 comprise a single, unified course in elementary college analysis. Sections to be arranged (*second half-year*). 25 and 26 O. H. ASSISTANT PROFESSORS MATHEWS and RAYNOR; MR. ARNOLD. (XIV)

Course 4 is elective for those who have taken Course 3.

Candidates for the degree of Ph. B. who have not presented for admission any advanced mathematics must take two of Courses 1, 2, 3, 4; those who have presented only one-half unit of advanced mathematics must take one of these courses.

Candidates for the degree of B. S. who have not presented trigonometry for admission are required to take Courses 1 and 3; those who have presented trigonometry are required to take Courses 3 and 4, unless they are advised by the instructor to take Courses 1 and 3 instead. (See note following Course 1.)

[\*5. SURVEYING. The theory and use of chain, tape, compass, level, and transit; surveying methods, problems, and computations, together with practical field and office work; spherical trigonometry. *Two hours of recitation, and two of*

*field work, counting as three hours.* ASSISTANT PROFESSOR MATHEWS.]

Course 5 is elective, with the permission of the instructor, for those who have taken a course in trigonometry. It is omitted in 1923-24.

6. PROJECTIVE GEOMETRY. An introductory course, treating of the properties of straight lines, polygons, the conic sections, and conicoids, by means of projective relations. *Tu., Th., Sat., at 10 (first half-year).* 26 O. H. ASSISTANT PROFESSOR MATHEWS. (IX)

Course 6 is elective for those who have taken Course 3.

7. DIFFERENTIAL AND INTEGRAL CALCULUS. Elementary course. *Mon., Wed., Fri., at 10.* 26 O. H. ASSISTANT PROFESSOR RAYNOR. (III)

Course 7 is elective for those who have taken Course 3.

8. ANALYTIC GEOMETRY. Advanced course, beginning with a review of plane analytic geometry and extending into the subject of solid analytic geometry. *Tu., Th., Sat., at 10 (second half-year).* 26 O. H. ASSISTANT PROFESSOR MATHEWS. (IX)

Course 8 is elective for those who have taken Course 3.

[9. PROBABILITY AND PHYSICAL MEASUREMENTS. The elements of probability, the law of errors, measures of precision and rules for computation, cumulative errors, weights, least squares. *Three times a week (first half-year).* PROFESSOR CAMP.]

Course 9 is elective for those who have taken, or are taking, Course 7. It is omitted in 1923-24.

[10. PROBABILITY AND STATISTICS. Frequency distributions, averages and measures of dispersion, Charlier's and Pearson's curves and the method of moments; sampling; correlation; finite differences and interpolation. *Three times a week (second half-year).* PROFESSOR CAMP.]

Course 10 is elective for those who have taken Course 9. It is omitted in 1923-24.

Students interested in economics or social science are advised to take Economics 6 either the year before, or the same year as, they take Mathematics 10.

[11. MECHANICS. Statics of rigid bodies and of other systems of particles, including as much of the theory of strings as is necessary to the study of cables hanging freely or supporting a bridge. The motion of particles under constant and under variable forces, including the study of impulsive forces, and of elasticity. An elementary treatment of the motion of a rigid body. Text: Hancock's Applied Mechanics for Engineers. *Three times a week.* PROFESSOR CAMP.]

Course 11 is elective for those who have taken Course 7. It is omitted in 1923-24, but will be given in 1924-25.

12. CALCULUS. Second course, including, in the first half-year, a more extended discussion of some of the subjects introduced in Course 7, and in the second half-year an introduction to the theory of differential equations, with applications to geometry, mechanics, and physics. *Mon., Wed., Fri., at 11.* 26 O. H. ASSISTANT PROFESSOR MATHEWS. (IV)

Course 12 is elective for those who have taken Course 7.

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## PHILOSOPHY.

PROFESSOR ARMSTRONG; ASSOCIATE PROFESSOR KRUSÉ.

1. LOGIC. Jevons-Hill's Elements of Logic; lectures and recitations, illustrated by numerous examples in logical praxis. An elementary course in the forms of reasoned thinking, both deductive and inductive. SECTIONS 1 and 2, *Mon., Wed., Fri., at 11*; SECTION 3, *Tu., Th., Sat., at 11 (first half-year)*. Same sections second half-year, alternating with the sections in Psychology 1. 28 and 11 F. H. PROFESSOR ARMSTRONG and ASSOCIATE PROFESSOR KRUSÉ. (XVIII)

Course 1 is elective for Sophomores.

2. ANCIENT AND MEDIAEVAL PHILOSOPHY. Zeller's Outlines of Greek Philosophy, with references to other authorities. Falckenberg's History of Modern Philosophy.



Lectures, recitations, and discussions on the historical development of philosophy to the beginning of modern times. *Mon., Wed., Fri., at 9 (first half-year).* 28 F. H. PROFESSOR ARMSTRONG. (II)

Course 2 is elective for Juniors who have taken any one of the following courses: Philosophy I, Psychology I, the introductory course in ethics. Juniors who elect it must have received grade C or better in one of these courses.

3. MODERN PHILOSOPHY TO 1840. Falckenberg's History of Modern Philosophy; lectures, recitations, discussions, and references to other standard authorities. The progress of modern philosophy is traced to the opening of the present age. *Mon., Wed., Fri., at 9 (second half-year).* 28 F. H. PROFESSOR ARMSTRONG. (II)

Course 3 is elective, under ordinary circumstances, for those who have taken Course 2.

4. READINGS IN PHILOSOPHY. Readings in the philosophical classics, ancient and modern, and in collateral authorities. This course is supplementary to Courses 2 and 3. The selections read are made the subject of discussion in the class-room; abstracts and theses may also be required. *Tu., Th., Sat., at 9.* 24 F. H. ASSOCIATE PROFESSOR KRUSÉ. (VIII)

Course 4 is elective for those who are taking, or who have taken, Courses 2 and 3.

5. PHILOSOPHY OF EDUCATION. This course aims to give a general survey of educational theory. It includes an examination and constructive criticism of the philosophical principles underlying current tendencies in the aims, methods, and organization of American education in its various branches. *Mon., Wed., Fri., at 2.* 24 F. H. ASSOCIATE PROFESSOR KRUSÉ. (VI)

Course 5 is elective, under ordinary circumstances, for those who have taken, or who are taking, Courses 2 and 3.

\*6. PHILOSOPHY OF THE NINETEENTH CENTURY. Lectures, readings, and discussions on philosophical thought since the disruption of the Hegelian school. In the second half of the year the work is conducted by the seminary method.

Special attention is given to contemporary English and American philosophy, and to recent types of opinion, as pragmatism, the new realism, and the systems of Bergson and Eucken. *Tu., Th., 2:30-3:30.* 24 F. H. PROFESSOR ARMSTRONG. (XII)

Course 6 is elective, with the permission of the instructor, for those who have taken Courses 2 and 3, or their equivalent.

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## PHYSICAL EDUCATION.

PROFESSOR FAUVER; MESSRS. MARTIN AND MCCURDY.

1. PHYSICAL TRAINING — FRESHMAN COURSE. During the first term, students are required to elect work in football, track, or tennis. In the second term, from Thanksgiving to Christmas, all are required to take systematic gymnastic work. After Christmas, all who have passed a satisfactory medical examination and certain physical efficiency tests may substitute basket-ball, handball, squash, swimming, etc., for the gymnastic work. During the third term students elect work out of doors as in the first term. *Three times a week, counting as one hour, the hours to be determined.*

Course 1 is required of Freshmen.

2. PHYSICAL TRAINING—SOPHOMORE COURSE. During the fall and spring Sophomores are required to elect work in football, baseball, track, tennis, or swimming. During the winter they are required to elect work in advanced gymnastics, basket-ball, handball, squash, swimming, boxing, wrestling, or track. *Three times a week, counting as one hour, the hours to be determined.*

Course 2 is required of Sophomores.

3. PHYSICAL TRAINING—JUNIOR COURSE. A continuation of Course 2. *Three times a week, counting as one hour, the hours to be determined.*

Course 3 is required of Juniors. No student will receive credit for this course until he has successfully completed at least two seasons in tennis and one season in handball or squash, and has passed the swimming test.

4. **THEORY AND PRACTICE.** The aim of the course is to acquaint the members of the class with the general principles underlying physical education, and their application in the practical work of teaching or coaching. The work of the course is divided into two parts: (a) Theory. A partial course in descriptive anatomy, including the study of bones, joints, and muscles, with emphasis upon their relation to gymnastic exercises and bodily posture; the effect of various exercises upon the tissues of the body, etc.; the theory of play underlying the common intercollegiate sports; methods of coaching, etc. (b) Practice. Advanced gymnastics with and without apparatus; boxing; wrestling; instruction in the playing of intercollegiate sports, such as basket-ball, foot ball, track, hand-ball, swimming, etc. *Mon., Wed., Fri., at 10, counting as two hours.* J. H. PROFESSOR FAUVER. (III)

Course 4 is elective for Juniors who have taken Physics 1, Chemistry 1, Biology 1 and 8, or their equivalents. Those who take the course are strongly urged to take the course in bacteriology. This course is intended especially for those who intend to teach.

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## PHYSICS.

PROFESSOR CADY; ASSISTANT PROFESSORS POWERS AND VAN DYKE.

1. **ELEMENTARY PHYSICS.** A. An introduction to physics for those not offering physics for entrance. One lecture, one laboratory period, and three hours for recitation and quiz in sections, all meeting at the same hour, *counting as four hours.* Lecture, *Mon., at 8.* 34 S. L. Sections, *Wed., Fri., at 8, and Sat., at 9.* S. L. For the laboratory work each student is assigned to one of the following sections: *Mon., 1-3, Tu., 1-3, Wed., 1-3, Th., 1-3.* PROFESSOR CADY, ASSISTANT PROFESSORS POWERS and VAN DYKE. (I)

Course 1A is elective for those who did not receive credit for physics on admission.

B. For those offering physics for entrance. One lecture, one laboratory period, and two hours for recitation and quiz in sections, all meeting at the same hour, *counting as three hours.* Lecture, *Mon., at 8,* in common with Course 1. 34

S. L. Sections, *Wed., Fri., at 8.* S. L. For the laboratory work each student is assigned to one of the following sections: *Mon., 1-3, Tu., 1-3, Wed., 1-3, Th., 1-3.* PROFESSOR CADY, ASSISTANT PROFESSORS POWERS and VAN DYKE. (I)

Course 1B is elective for those who received credit for physics on admission, or whose previous preparation in physics is satisfactory to the instructors.

2. GENERAL PHYSICS. This course is a continuation of Course 1, emphasis being laid on recent discoveries and their bearing on the fundamentals of physical science. It serves also as a preparation for the more advanced courses in the department. *Mon., Wed., Fri., at 11.* 34 S. L. PROFESSOR CADY. (IV)

Course 2 is elective for those who have taken Course 1.

3. PHYSICAL EXPERIMENTS. The course includes laboratory practice and measurements in all the principal branches of physics, with group discussions at hours to be determined. *Six (counting as two) hours a week. With the permission of the instructor, the course may be elected for nine (counting as three) hours, or, in the case of pre-medical students, it may be elected in the second semester for three (counting as one) hours.* S. L. ASSISTANT PROFESSOR VAN DYKE.

Course 3 is elective for those who have taken at least the first semester of Course 1. This is a two-semester course, and may, with the permission of the instructor, be begun the second semester. It is very desirable that those electing this course should do so while taking Course 1, or the year following.

4. GEOMETRICAL AND PHYSICAL OPTICS. Text-book, lectures, and occasional laboratory work. Some of the subjects considered are: spherical mirrors and lenses, systems of lenses, wave-theory of light, interference, diffraction, polarization, double refraction, spectroscopy, and illumination. *Mon., Wed., Fri., at 11.* 40 S. L. ASSISTANT PROFESSOR POWERS. (IV)

Course 4 is elective for those who have taken Course 2.

[5. HEAT AND THERMODYNAMICS. Text-book and lectures, with application to the steam engine and the internal com-

bustion engine; occasional laboratory work in heat and in engine testing. *Three times a week.*]

Course 5 is elective for those who have taken Course 2, and calculus. It is omitted in 1923-24.

[6. APPLICATIONS OF ELECTRICITY AND MAGNETISM. Text-book and lectures. A descriptive course in electricity and magnetism, with special reference to the elements of telegraphy and telephony, electric lighting, storage batteries, and X-rays. *Three times a week (first half-year).*]

Course 6 is elective for those who have taken Course 2. It is omitted in 1923-24.

[7. ELECTRICAL MACHINERY. Text-book and lectures on the elements of direct and alternating current machinery, with laboratory tests by the class. Use is made of the steam engine and generator at the boiler house. *Three times a week (second half-year).*]

Course 7 is elective for those who have taken Course 6, and who have taken, or are taking, calculus. It is omitted in 1923-24.

[8. MECHANICS, WAVE MOTION, AND SOUND. Text-book and lectures on mechanics, wave motion, and theory of sound. An introduction to the elements of theoretical physics. *Three times a week.* ASSISTANT PROFESSOR VAN DYKE.]

Course 8 is elective for those who have taken Course 2, and calculus. It is omitted in 1923-24.

\*9. ADVANCED ELECTRICITY. Text-book and lectures on the elementary mathematical theory of electricity and magnetism. *Tu., Th., Sat., at 10.* 40 S. L. PROFESSOR CADY.

(IX)

Course 9 is elective, with the permission of the instructor, for those who have taken Course 2, and calculus.

[\*10. THE CONSTITUTION OF MATTER. Text-book, lectures, and collateral reading on conduction of electricity through gases, elements of the electron theory, analysis of crystal structure by X-rays, and nature of the atom. *Three times a week.*]

Course 10 is elective, with the permission of the instructor, for those who have taken Course 2, and calculus. It is omitted in 1923-24.

[11. RADIO COMMUNICATION. Text-book, lectures, and frequent laboratory work. Among the subjects considered are: the three-element vacuum-tube and its applications as amplifier, detector, oscillator, electric oscillations, electromagnetic waves, transmitting and receiving circuits, radio-frequency measurements. The work of the first semester consists of an elementary treatment; that of the second semester is a careful analysis of the more difficult parts of the subject. *Three times a week.*]

Course 11 is elective for those who have taken either Courses 6 and 7 or Course 9; the first semester is elective for those who have taken Course 2. It is omitted in 1923-24.

\*12. ADVANCED LABORATORY. A brief treatment of precision of measurements and graphical methods, based largely on a text-book, with laboratory applications in the principal divisions of physics. *Six or nine hours a week, counting as two or three hours, respectively.* S. L. PROFESSOR CADY and ASSISTANT PROFESSOR POWERS.

Course 12 is elective, with the permission of the instructors, for those who have taken Course 3, and one or more of Courses 4-11.

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Students planning to specialize in physics are advised to take calculus in the Sophomore year, and to elect as many as practicable of the following courses in other departments: Mathematics 9, 11, and 12; Chemistry 3, 4, 5.

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## PSYCHOLOGY.

PROFESSOR DODGE; ASSISTANT PROFESSOR HUMPHREY; DR. BINGHAM.

1. ELEMENTARY PSYCHOLOGY. Lectures and recitations, based on Pillsbury's Essentials of Psychology, and references to other standard texts. SECTIONS 1 and 2, *Mon., Wed., Fri., at 11*; SECTIONS 3 and 4, *Tu., Th., Sat., at 11 (first half-*

year). Three sections second half-year, alternating with sections in Philosophy 1. 22 and 39 F. H. ASSISTANT PROFESSOR HUMPHREY and DR. BINGHAM. (XVIII)

Course 1 is elective for Sophomores. It may not be elected alone, but must be elected with Philosophy 1. It is preparatory to all later work in the department, and it should therefore be taken in Sophomore year by all students who plan to elect their major studies in psychology.

2. PHYSIOLOGICAL AND EXPERIMENTAL PSYCHOLOGY. Lectures and class demonstrations, with collateral reading. The course aims at a dynamic psychology. It deals with the nervous conditions of consciousness, with special reference to mental work, fatigue, and efficiency, the origin and integration of knowledge and conduct. Experimental methods of investigation are discussed and illustrated by class demonstrations. *Tu., Th., Sat., at 8.* 22 F. H. PROFESSOR DODGE. (VII)

Course 2 is elective for those who have taken Course 1, or who are taking it in their Junior or Senior year.

3. EMOTIONS AND WILL. Lectures and reports. A systematic general account of the emotions, the will, and human personality. A more detailed account of special phenomena, including anger, fear, the tender emotions, sympathy, the aesthetic emotions, the religious emotions, emotional prejudice, the motor value of ideas, suggestion and hypnotism, compulsive ideas, etc. *Tu., Th., at 10.* 14 F. H. PROFESSOR DODGE. (IX)

Course 3 is elective for those who have taken Course 1.

4. EDUCATIONAL PSYCHOLOGY. Lectures and required readings aiming to give a psychological insight into the problems of education, including the theory and practice of mental tests, with actual testing or other practical work in schools. In conjunction with Course 1, this course is planned to meet the requirements in educational psychology of those states and cities which demand the professional training of teachers, but it is also intended to serve the needs of those whose interest in the psychological problems of education is non-professional. *Mon., Wed., Fri., at 8.* 31 F. H. ASSISTANT PROFESSOR HUMPHREY. (I)

Course 4 is elective for those who have received grade C— or better in Course 1.

5. APPLIED PSYCHOLOGY. First semester: Business and industrial applications; psychological principles involved in management, vocational guidance, selection of employees, advertising, etc. Second semester: Applications of psychology to abnormal cases. *Th., Sat., at 9.* 31 F. H. ASSISTANT PROFESSOR HUMPHREY. (VIII)

Course 5 is elective for those who have received grade C— or better in Course 1. The two halves may be elected independently with the permission of the instructor.

[6. SOCIAL PSYCHOLOGY. Effects of the group on the mental processes of the individual in the herd, mob, and organized society; the conditions and products of inter-action between minds, as in language, art, morals, loyalty, and leadership; the hypothesis of super-individual minds. Recitations, reports and lectures. *Twice a week.* PROFESSOR DODGE.]

Course 6 is elective for those who have taken Course 3, and for those who have received grade C— or better in Course 1. It is omitted in 1923-24.

[\*7. HISTORY OF PSYCHOLOGY. Lectures, reports, and critical reading of selected psychological classics. First semester: The development of psychological thought from prehistoric beliefs through the Greek to the mediaeval period. Second semester: the discussion is brought down to modern times, and includes an account of the outstanding tendencies of the present day. *Twice a week.* ASSISTANT PROFESSOR HUMPHREY.]

Course 7 is elective, with the permission of the instructor, for those who have taken Course 1. It is omitted in 1923-24.

\*8. LABORATORY COURSE. Experimental study of special problems. *Mon., 7-9 p. m., counting as one hour.* 22 F. H. PROFESSOR DODGE.

Course 8 is elective, with the permission of the instructor, for those who have taken Course 2.



## PUBLIC SPEAKING.

ASSISTANT PROFESSOR CRECRAFT.

1. ORAL EXPRESSION. A general course in fundamental training of voice and body for expression. First semester: emphasis on mental action as related to bodily action; exercises in freeing the body and voice from platform restraint and general habits of repression; study of principles underlying all effective speaking; exercises in reading, declamation, and original speeches; outlines of original speeches; text-book. Second semester: purpose, to enable the student to acquire the ability to unite effective preparation with a truly extempore use of sentences and words on the platform; written outlines, speeches for various occasions, application of the principles studied in first semester; text-book. *Mon., Wed., Fri., at 3. Room B, F. H.*

Course 1 is elective for Sophomores.

[2. PUBLIC ADDRESS. The analysis of some famous orations. Practice in making original speeches of all kinds. The summoning and controlling in public of all the individual's resources of mind and body. *Three times a week (first-half year).*]

Course 2 is elective for those who have taken Course 1. It is omitted in 1923-24.

[3. INTERPRETATION OF LITERATURE. Oral interpretation of different forms of literature, with technical instruction and drill in voice and action. Development of initiative, creative power, and artistic insight. Exercises, recitations, and speeches; collateral reading, with constant reference to a text-book. *Three times a week (second half-year).*]

Course 3 is elective for those who have taken Course 1. It is omitted in 1923-24.

## ROMANCE LANGUAGES.

PROFESSORS KUENS AND MANN; ASSOCIATE PROFESSORS BUSSOM AND CLARK; MR. SMITH.

## FRENCH.

1. ELEMENTARY FRENCH. An introduction to French grammar and composition. Reading of simple narrative prose. Oral drill is carried on throughout the year and special attention is given to pronunciation. SECTION 1, *Mon., Wed., Fri., at 8.* 14 F. H. SECTION 2, *Tu., Th., Sat., at 8.* 14 F. H. SECTION 3, *Mon., Wed., Fri., at 9.* 39 F. H. MR. SMITH. (XIII)

Candidates for the degrees of Ph. B. and B. S. must complete the equivalent of Courses 1 and 2 in French, as well as 1 and 2 in German. Such of these courses as they have not taken and passed before entering college, they must take as soon as practicable after entering.

2. INTERMEDIATE FRENCH. This course has for its main object careful drill in the use of the French language, together with the reading of a large amount of French. Some attention is given to the study of France as a country, its people, and its literature. SECTION 1, *Tu., Th., Sat., at 8.* 11 F. H. SECTION 2, *Tu., Th., Sat., at 10.* 39 F. H. SECTION 3, *Mon., Wed., Fri., at 11.* 37 F. H. SECTION 4, *Mon., Wed., Fri., at 2.* 39 F. H. PROFESSOR MANN, ASSOCIATE PROFESSORS BUSSOM and CLARK, and MR. SMITH. (XIII)

Course 2 is elective for those who have taken Course 1, or who have passed elementary French for admission.

3. FRENCH LANGUAGE. This course is designed primarily to develop fluency in the written and spoken language. Special stress is laid on the requirement of a correct pronunciation. Systematic study of vocabulary. Review of word order and the more difficult points of syntax. Regular exercises in writing French. Collateral reading is made the subject of oral and written reports. Lectures on French life and institutions. In great part the class exercises are conducted in French. SECTION 1, *Mon., Wed., Fri., at 9.* 37 F. H. SECTION 2, *Tu., Th., Sat., at 10.* 28 F. H. ASSOCIATE PROFESSOR CLARK. (XIII)

Course 3 is elective for those who have taken Course 2, or who have passed intermediate French for admission.

4. FRENCH LITERATURE. A general course in the literature of modern France. Some of the masterpieces of the great writers are read and discussed. Duval's *Histoire de la Littérature Française* is translated and supplemented by informal lectures on the general state of literature in France in the seventeenth, eighteenth, and nineteenth centuries. Twice a week translation from English into French is made. In addition, each member of the class must make, twice during the year, a more extensive study of some one particular writer. *Mon., Wed., Fri., at 8.* 39 F. H. PROFESSOR KUHN. (I)

Course 4 is elective for Sophomores who have taken Course 2 or Course 3.

5. FRENCH CLASSICISM. A study of the principal literary works of seventeenth century classicism, and lectures on the social life of the period. Class-room exercises are conducted in French. *Tu., Th., Sat., at 11.* 36 F. H. ASSOCIATE PROFESSOR BUSSOM. (X)

Course 5 is elective for Sophomores who have taken Course 2 or Course 3.

6. THE EIGHTEENTH CENTURY. The works of the most important writers are studied in considerable detail. In class room discussion and lectures special attention is given to the relation of these works to many social, economic, and political problems, as well as to the purely literary phases of the subject. *Mon., Wed., Fri., at 10.* 36 F. H. PROFESSOR MANN. (III)

Course 6 is elective for Sophomores who have taken Course 2 or Course 3.

7. THE MODERN DRAMA. A study of the important tendencies in French dramatic writing, beginning with the Romantic period, and including the contemporary plays. Lectures, discussion, and reports. *Tu., Th., at 9.* 36 F. H. PROFESSOR MANN. (VIII)

Course 7 is elective for Sophomores who have taken Course 2 or Course 3.

8. THE NOVEL OF THE NINETEENTH CENTURY. Reading and discussion of some of the representative works of the period. *Th.*, 2-4. 36 F. H. ASSOCIATE PROFESSOR BUSSOM. (XII)

Course 8 is elective for Sophomores who have taken Course 2 or Course 3.

9. OLD FRENCH. The work consists in the translation of Old French texts, and the study of Old French literature, with special reference to its influence on the literatures of the other nations of Western Europe. Lectures on the origin of the French language and collateral reading form part of the work. *Th.*, at 8; *Fri.*, at 10 (*first half-year*). 39 F. H. PROFESSOR KUHN. (VII)

Course 9 is elective for those who have taken Course 4.

10. FRENCH SYNTAX AND PHONETICS. This course is especially designed to meet the needs of those who intend to teach French. It includes the study of grammar and composition, phonetics of French pronunciation, and other appropriate topics. *Th.*, at 8; *Fri.*, at 10 (*second half-year*). 39 F. H. PROFESSOR KUHN. (VII)

Course 10 is elective for those who have taken Courses 1-4.

#### ITALIAN.

1. ELEMENTARY ITALIAN. Grammar, composition, and reading of Italian prose. In addition to the regular work by the class in translating modern prose, Professor Kuhns translates and interprets to the class the *Inferno* of Dante. *Mon.*, *Wed.*, *Fri.*, at 10. 37 and 39 F. H. PROFESSOR KUHN and ASSOCIATE PROFESSOR CLARK. (III)

Course 1 is elective for Sophomores who have taken French 1.

2. ADVANCED ITALIAN. In this course the *Purgatorio*, the *Paradiso*, and the *Vita Nuova* of Dante, and the *Rime* of Petrarch are read and translated. *Mon.*, *Wed.*, at 10. 39 F. H. PROFESSOR KUHN. (III)

Course 2 is elective for those who have taken Course 1.

3. DANTE IN ENGLISH. The text-book in this course is Cary's translation of the *Divine Comedy*. The instructor interprets the *Divine Comedy* in the light of the history,

science, theology, and philosophy of the Middle Ages and shows its influence on modern thought, laying especial emphasis on the moral and religious teaching of the great Italian poet. *Tu., at 8.* 39 F. H. PROFESSOR KUHN. (VII)

Course 3 is elective for Sophomores.

### SPANISH.

1. ELEMENTARY SPANISH. Grammar, and reading of simple Spanish prose. *Mon., Wed., Fri., at 10.* 29 F. H. ASSOCIATE PROFESSOR BUSSOM. (III)

Course 1 is elective for Sophomores who have taken French 1.

2. SPANISH LITERATURE. The work of this course consists in the reading of representative authors, a general survey of the development of Spanish literature, and a study of Spain and the Spanish people. In addition, there is regular drill in composition. Part of the exercises are conducted in Spanish. *Tu., Th., Sat., at 10.* 28 F. H. PROFESSOR MANN. (IX)

Course 2 is elective for those who have taken Course 1.

3. SPANISH COMPOSITION AND CONVERSATION. The aim of this course is to develop facility in the written and spoken language. *Mon., Wed., at 2.* 36 F. H. ASSOCIATE PROFESSOR BUSSOM. (VI)

Course 3 is elective for those who have taken Course 1.

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## DAILY PROGRAM.

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The order of lectures and recitations is set forth in the table given on pages 114 and 115. Arabic numerals following the names of the several studies refer to the numbers of the courses as enumerated in the foregoing statement of courses of instruction. Numerals in parentheses, following the names of certain studies, indicate the sections into which the classes are divided.

# DAILY PROGRAM, 1923-1924.

The figures in parentheses indicate sections.

Hour	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8.	English 1 (1) English 4 English 16 Ethics 1 (1) French 1 (1) French 4 German 1 (1, 2) Greek 1 Greek 2 Greek 5 History 5 Latin 11 Mathematics 1 (1) Mathematics 3 (1) Physics 1 Psychology 4	Biology 2, 3 Biology 5 Chemistry 8 English 1 (2) English 6 (1) English 20 French 1 (2) French 2 (1) German 2 (2) German 6 Greek 8 History 8 Italian 3 Latin 12 Mathematics 1 (4) Mathematics 3 (3) Psychology 2	English 1 (1) English 4 English 16 Ethics 1 (1) English 6 (1) French 4 German 1 (1, 2) Greek 1 Greek 2 Greek 5 History 5 Latin 11 Mathematics 1 (1) Mathematics 3 (1) Physics 1 Psychology 4	Biology 2, 3 Biology 5 Chemistry 8 English 1 (2) English 6 (1) English 20 French 1 (2) French 2 (1) French 9, 10 German 2 (2) German 6 Greek B History 8 Latin 12 Mathematics 1 (4) Mathematics 3 (3) Psychology 2	English 1 (1) English 4 English 16 Ethics 1 (1) French 1 (1) French 4 German 1 (1, 2) Greek 1 History 5 Latin 11 Mathematics 1 (1) Mathematics 3 (1) Physics 1 Psychology 4	English 1 (2) English 6 (1) French 1 (2) French 2 (1) French 10 German 2 (2) German 6 History 8 Latin 12 Mathematics 1 (4) Mathematics 3 (3) Psychology 2
9.	Astronomy 3 Biology 6, 7 Chemistry 1B Economics 1 (1, 2, 3) Economics 7 English 5 French 1 (3) French 3 (1) German 5 Government 2 Government 7, 8 Mathematics 1 (2) Mathematics 3 (2) Philosophy 2, 3	Biology 8 Chemistry 1A Economics 3 English 6 (2) English 11 Ethics 1 (2) French 7 German 5 Government 1 (2) Government 4 Greek 4 Mathematics 1 (2) Mathematics 3 (2) Philosophy 4	Astronomy 3 Biology 6, 7 Chemistry 1B Economics 1 (1, 2, 3) Economics 7 English 5 French 1 (3) French 3 (1) German 5 Government 2 Government 7, 8 Mathematics 1 (2) Mathematics 3 (2) Philosophy 2, 3	Biology 8 Chemistry 1A Economics 3 English 6 (2) English 11 Ethics 1 (2) French 7 German 5 Government 1 (2) Government 4 Greek 4 Mathematics 1 (5) Mathematics 3 (2) Philosophy 5	Astronomy 3 Chemistry 1 Chemistry 10 Economics 1 (1, 2, 3) Economics 7 English 5 French 1 (3) French 3 (1) German 2 Government 2 Mathematics 1 (2) Mathematics 3 (2) Philosophy 2, 3	Economics 3 English 6 (2) Ethics 1 (2) German 5 Government 1 (2) Government 4 Mathematics 1 (5) Philosophy 4 Physics 1A Psychology 5
10.	Chemistry 2 English 1 (3, 8) English 14 Ethics 2 French 6 German 3 German 10, 11 Italian 1, 2	Astronomy 4 Biology 1 (1) Chemistry 3 Economics 8 English 1 (4) English 6 (3) French 2 (2) French 3 (2) Greek 3 Greek 10, 11 German 1 (3, 4)	Astronomy 2 Chemistry 2 English 1 (3, 8) English 14 Ethics 2 French 6 Geology 1, 2 German 3 Greek 10, 11 History 3	Astronomy 4 Biology 1 (1) Chemistry 3 Economics 8 English 1 (4) English 6 (3) French 2 (2) French 3 (2) German 1 (3, 4)	Astronomy 2 Chemistry 2 English 1 (3, 8) English 14 Ethics 2 French 6 French 9 Geology 1, 2 German 3 Greek 10, 11	Biology 1 (1) Chemistry 3 Economics 8 English 1 (4) English 6 (3) French 2 (2) French 3 (2) Geology 9 German 1 (3, 4) History 7

# DAILY PROGRAM, 1923-1924—(Continued).

Hour	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
10. Con.	Latin 1 (1) Mathematics 7 Phys. Education 4 Spanish 1	History 7 Latin 2, 3 Mathematics 1 (6) Mathematics 6, 8 Physics 9 Psychology 3 Spanish 2	Italian 1, 2 Latin 1 (1) Mathematics 7 Phys. Education 4 Spanish 1	History 7 Latin 2, 3 Mathematics 1 (6) Mathematics 6, 8 Psychology 3 Spanish 2	History 3 Italian 1 Mathematics 7 Phys. Education 4 Spanish 1	Latin 2, 3 Mathematics 1 (6) Mathematics 6, 8 Physics 9 Spanish 2
11.	Astronomy 1 (1) Economics 5 English 1 (5) English 19 French 2 (3) Geology 3 (3) English 7, 24 French 5 German 4, 8 Government 1 (1) Greek 5, 6 Latin 1 (2) Latin 10 Mathematics 1 (3) Mathematics 12 Philosophy 1 (1, 2) Physics 2, 4 Psychology 1 (1, 2)	Astronomy 5 Biology 1 (2) Chemistry 7 Economics 4 English 1 (6) English 7, 24 French 5 German 4, 8 Government 3 History 1 Latin 9 Philosophy 1 (3, 4) Psychology 1 (3, 4)	Astronomy 1 (1) Economics 5 English 1 (5) English 19 French 2 (3) Geology 3 (3) English 7, 24 French 5 German 4, 8 Government 1 (1) Greek 5, 6 Latin 1 (2) Mathematics 1 (3) Mathematics 12 Philosophy 1 (1, 2) Physics 2, 4 Psychology 1 (1, 2)	Astronomy 5 Biology 1 (2) Chemistry 7 Economics 4 English 1 (6) English 7, 24 French 5 German 4, 8 Government 3 History 1 Latin 9 Philosophy 1 (3, 4) Psychology 1 (3, 4)	Astronomy 1 (1) Economics 5 English 1 (5) English 19 French 2 (3) Geology 3 (3) English 7, 24 French 5 German 4, 8 Government 1 (1) Greek 5, 6 Latin 1 (2) Latin 10 Mathematics 1 (3) Mathematics 12 Philosophy 1 (1, 2) Physics 2, 4 Psychology 1 (1, 2)	Biology 1 (2) Chemistry 7 Economics 4 English 1 (6) English 7, 24 French 5 German 4, 8 Government 3 History 1 Latin 9 Philosophy 1 (3, 4) Psychology 1 (3, 4)
1.	Astronomy 1 (2) Biology 11 Chemistry 4 Economics 1 (4) Economics 6 English 1 (7) German 2 (1) Government 6 Greek A Public Speaking 1 (1)	Biology 12	Astronomy 1 (2) Biology 11 Chemistry 4 Economics 1 (4) English 1 (7) German 2 (1) Government 6 Greek A Public Speaking 1 (1)	Biology 12	Astronomy 1 (2) Biology 11 Chemistry 5 Economics 1 (4) Economics 6 English 1 (7) German 2 (1) Government 6 Greek A Public Speaking 1 (1)	Astronomy 1 (2) Biology 11 Chemistry 5 Economics 6 English 1 (7) German 2 (1) Government 6 Greek A Public Speaking 1 (1)
2.	Biology 8 Economics 9 English 13 French 2 (4) Philosophy 5 Public Speaking 1 (2) Spanish 3	English 23 French 8 Greek A Philosophy 6	Economics 9 English 10, 13 French 2 (4) Philosophy 5 Public Speaking 1 (2) Spanish 3	English 23 Philosophy 6	Economics 9 English 10, 13 French 2 (4) Philosophy 5 Public Speaking 1 (2)	Economics 9 English 10, 13 French 2 (4) Philosophy 5 Public Speaking 1 (2)
3.		English 3 French 8				

## EXAMINATION GROUPS.

No student is allowed to take more than one course in any of these groups, with the exception of those which are not given in the same half-year or on the same day. The following courses are not assigned to any group, and may be elected without limitation: Astronomy 6; Biology 9, 13, 14, 15; Chemistry 9, 12, 13; Economics 10; English 22; History 6; Latin 6; Physical Education 1, 2, 3; Physics 3, 12; Psychology 8; Public Speaking 1.

## I.

English 4, 16  
Ethics 1  
French 4  
Greek 1  
Greek 2  
History 5  
Latin 11  
Physics 1  
Psychology 4

## II.

Astronomy 3  
Biology 6, 7  
Chemistry 1B  
Chemistry 10  
Economics 1  
Economics 7  
English 5, 22  
Geology 7, 8  
Government 2  
Philosophy 2, 3

## III.

Astronomy 2  
Chemistry 2

## English 14

Ethics 2  
French 6  
Geology 1, 2  
German 3  
Greek 10, 11  
History 3  
Italian 1  
Italian 2  
Mathematics 7  
Phys. Education 4  
Spanish 1

## IV.

Economics 5  
English 19  
Geology 3, 5  
German 4  
German 8  
Government 1  
Greek 5, 6  
Latin 1  
Latin 10  
Mathematics 12  
Physics 2, 4

## V.

Astronomy 1  
Biology 11  
Chemistry 4, 5  
Economics 6  
Government 6  
Greek A

## VI.

Economics 9  
English 1, 13  
Philosophy 5  
Spanish 3

## VII.

Biology 2, 3, 5  
Chemistry 8  
English 20  
French 9, 10  
German 6  
Greek B  
History 8  
Latin 12  
Psychology 2  
Italian 3



## VIII.

Biology 8  
 Chemistry 1A  
 Economics 3  
 English 11  
 French 7  
 German 5  
 Government 4  
 Greek 4  
 Latin 15  
 Philosophy 4  
 Psychology 5

## IX.

Astronomy 4  
 Chemistry 3  
 Economics 8  
 Geology 9  
 History 7  
 Latin 2, 3  
 Mathematics 6, 8  
 Physics 9  
 Psychology 3  
 Spanish 2

## X.

Astronomy 5  
 Chemistry 7  
 Economics 4  
 English 7, 24  
 French 5  
 Government 3  
 History 1  
 Latin 9

## XI.

Biology 12

## XII.

English 23  
 French 8  
 Philosophy 6

## XIII.

French 1  
 French 2  
 French 3

## XIV.

Mathematics  
 1, 2, 3, 4

## XV.

German 1  
 German 2

## XVI.

English 6

## XVII.

Biology 1  
 English 3, 10

## XVIII.

Philosophy 1  
 Psychology 1

## REQUIREMENTS FOR GRADUATION.

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In order to fulfill the requirements for a bachelor's degree, a student must pass in *sixty-three* hours of work, of which *thirty-eight* must be above grade D+. Course 1 in English (three hours), and three courses in Physical Education (each three hours, counting as one) are required of all students.

### I. GENERALIZATION (FRESHMAN AND SOPHOMORE YEARS).

In order to lay a broad foundation for the more concentrated work of the later years of the course, students are required to take in the first two years, in addition to English 1, *nine* hours each from three groups of studies: (1) languages, (2) philosophy and social sciences, (3) mathematics and natural sciences. The specific courses which may be elected are as follows:

Group 1. Nine hours from courses in Latin, Greek, German, Romance languages, and, in English, Course 6.

Group 2. Nine hours from History 1, Government 1, Economics 1, Philosophy 1 and Psychology 1 (making together a full year course), and Ethics 1.

Group 3. Nine hours from Mathematics 1-4, Astronomy 1 and 3, Physics 1, Chemistry 1 and 2, Geology 1 and 2, and Biology 1 and 5.

On presentation of reasons satisfactory to the Administration Committee, a student may postpone three hours, in exceptional cases six hours, of his generalization work until his Junior year.

Certain courses from these three groups are specifically required of candidates for the three bachelor's degrees, as follows:

BACHELOR OF ARTS. Group 1: Latin 1 or Greek 1; German 1 and 2, or French 1 and 2, unless presented for admission. (A student who elects both Latin 1 and Greek 1, or who elects Greek A, Greek B, and Greek 1, is required to take only one year of a modern language.)

**BACHELOR OF PHILOSOPHY.** Group 1: German 1 and 2, and French 1 and 2, unless presented for admission. Group 2: Philosophy 1 and Psychology 1; either History 1 or Government 1; Economics 1. Group 3: A course in mathematics, three hours for the year, unless an equivalent of advanced mathematics was presented for admission.

**BACHELOR OF SCIENCE.** Group 1: German 1 and 2, and French 1 and 2, unless presented for admission. Group 3: A course in mathematics, three hours for the year; Physics 1 and Chemistry 1, unless one or both have been presented for admission. (If a student has presented elementary chemistry for admission, he must take Physics 1 in college; if he has presented elementary physics, he must take Chemistry 1; if he has presented both, he may have his choice between Physics 1 and Chemistry 1.)

Required courses must be taken in the first year in which the student is eligible for admission to them, except that a candidate for the B. S. degree who has received credit for admission in both physics and chemistry may postpone to the Sophomore year meeting the requirement of either Physics 1 or Chemistry 1 in order to elect the introductory course in another department of science.

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## II. CONCENTRATION (JUNIOR AND SENIOR YEARS).

The program for the concentration group may be arranged at the beginning of the Sophomore year, and must be made up not later than the beginning of the Junior year by the student in consultation with a professor in the department in which the major work is to be done, and with the approval of the Dean.

A student must elect a concentration group of *fifteen* hours' work, distributed in not to exceed three departments, and including no introductory course. (In addition to courses numbered A, B, or 1 in each department, Astronomy 3, Biology 5, Chemistry 2, English 6, French 2, Geology 2, German 2, and Mathematics 2, 3, and 4 are considered introductory courses. Greek 1, however, may be counted as a concentration course by a student who has taken Greek A and Greek B in college.) A course whose content brings it about equally within the scope

of two or more departments may, by agreement of the instructors concerned, be listed under each department, and considered for the purpose of this regulation as a course belonging to any department under which it is listed.

Of the fifteen hours, at least *nine* must be in the major department, unless the department does not offer sufficient hours in addition to the introductory course, in which case the concentration group may include four departments instead of three.

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#### QUOTA OF STUDIES.

The quota of studies is from fifteen to eighteen hours a week, in addition to the required work in physical education. A Senior may be allowed a minimum quota of twelve hours a week, if he does not need more to graduate. But Seniors are held to pass in all the courses they are taking at the time of the final examinations, even though in excess of the required quota.

Freshmen are strongly advised not to take more than fifteen hours, in addition to physical education, unless they are taking Greek A or B.

## LECTURES, 1922-1923.

## THE GEORGE SLOCUM BENNETT LECTURESHIP FUND.

A gift of twenty-five thousand dollars from Mrs. Ellen N. Bennett, Mrs. Martha Bennett Jones, R. Nelson Bennett, and Z. Platt Bennett, of Wilkes-Barre, Pa., has been combined with a gift of ten thousand dollars in 1907 from George Slocum Bennett, of the class of 1864, into a fund to be known as the George Slocum Bennett Lectureship Fund, in memory of Mr. Bennett, who died January 2, 1910. The income is to be used "in defraying the expenses of providing for visiting lecturers, preachers, and other speakers supplemental to the college Faculty."

In 1922-23 Professor George Matthew Dutcher, Ph.D., gave a course of six lectures in February on: The Progress of Western Ideas in Eastern Lands.

Earlier Bennett lectures were as follows:

1918-19—Professor Andrew Cunningham McLaughlin, LL.D., University of Chicago: Steps in the Development of American Democracy.

1919-20—Professor George McKinnon Wrong, M. A., University of Toronto: The United States and Canada.

1920-21—Dean Shailer Mathews, LL.D., University of Chicago: The Validity of American Ideals.

1921-22—Professor Charles Cestre, D. Litt., LL.D., University of Paris: The Ideals of France.

## UNIVERSITY RECITALS AND ADDRESSES.

The following recitals and addresses were given for the benefit of the College Body during the year 1922-23:

Warren D. Allen, Organist of Stanford University: Organ Recital.

Sigmund Spaeth, Ph. D.: Illustrated Lecture on Music.

Whitney Warren, Architect: The Library of the University of Louvain.

Francis Rogers, Baritone: Three Centuries of Songs by English Composers.

## MIDDLETOWN SCIENTIFIC ASSOCIATION.

The Middletown Scientific Association, founded in 1871, has a membership of about one hundred, taken partly from the college and partly from the town. Regular meetings are held on the second Tuesday of every month during the college year, in the lecture-room of the John Bell Scott Memorial. During 1922-23 the following addresses were given:

Herbert Keightley Job, B. A., New Haven, Connecticut: Modern Aspects of Interest in Bird Life.

Hugh Potter Baker, M. F., D. Oec., Executive Secretary of the American Paper and Pulp Association: Forests and Forestry in New England.

Albert Davis Mead, Ph. D., Brown University: Some Fundamental Propositions in Biology.

George Sarton, Sc. D., Brussels, Belgium: The History of Science.

Norman Wilson Storer, M. E., Westinghouse Electric and Manufacturing Company: The Romance of the Electric Locomotive.

George Grant MacCurdy, Ph. D., Yale University: Prehistoric Progress and Prospects.

Assistant Professor Humphrey: Psychology and M. Coué.

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THE CLASSICAL CLUB.

The Classical Club was founded in 1906 by about twenty of the students taking classical courses. Meetings are held once a month during the college year. The following addresses were given before the club in 1922-23:

Howard Theodric Westbrook, B. A.: The Beginnings and Rise of the Greek Theatre.

Edward Lawrence Christie, B. A.: The Last Great Greek.

Professor Hewitt: Sicily.

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LA SOCIÉTÉ FRANÇAISE.

A French club was founded in 1907 by a number of students taking courses in the department of Romance languages. In the fall of 1909, the club was reorganized under the title of

La Société Française, holding fortnightly meetings at the fraternity houses. The following addresses were given before the club in 1922-23:

Associate Professor Clark: L'Académie Française.

Professor Mann: Un Voyage à travers le Midi de France (illustrated).

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#### DER DEUTSCHE VEREIN.

A club was organized October 23, 1909, by undergraduates for further practice in the German language and the study of German culture. Those undergraduates are eligible for active membership (the number is limited to fifteen) who are taking or have taken courses in German more advanced than Course 2. Members of the Faculty and graduate students may be elected to honorary membership. Meetings are held semi-monthly. Programs, arranged with the advice of the teaching staff in the department, include addresses by instructors in German in other institutions, papers by members, plays, etc. The following addresses were given in 1922-23:

Professor Campbell: Erfahrungen in Deutschland.

Professor Hollon Augustus Farr, Ph. D., Yale University: Sport in Deutschland.

Professor Curts: Ludwig Thomas' Lausbubengeschichten.

Doctor Baerg: Vorbilder und Führer in der Ausdruckskunst in Deutschland.

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#### THE ROSA CLUB.

The Rosa Club was founded in the fall of 1923 by graduate and undergraduate students in the department of physics. All students who have taken at least two courses in physics, all juniors whose major subject is physics, and all instructors and assistants in the department, are eligible for membership. Meetings are held every two weeks in the Scott Laboratory or in fraternity houses. Papers are read by members of the club or by speakers from outside. The club takes the place of the Radio Club, founded in 1914. The following addresses were delivered before the Radio Club in 1922-23:

Assistant Professor Van Dyke: The Versatile Vacuum Tube.

Richard Cheney Hitchcock, B. S.: General Electric Transformers.

Professor Cady: The Use of Vibrating Crystals in Radio.

George William Bain, M. A.: The Piezo-electric Resonator.

Harold DeForest Arnold, Ph. D., Western Electric Company: A New 40 k. w. Power Tube and its Applications.

Assistant Professor Powers: The Comparison Method of Determining Capacities.

Professor Cady: Direction Finding.

Assistant Professor Van Dyke: Radio Frequency Amplification.

Richard Cheney Hitchcock, B. S.: Radio Telephone Transmitters.

George William Bain, M. A.: Amplifiers.

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#### THE WESTGATE CLUB.

The Westgate Club is named in honor of George Lewis Westgate, of the class of 1865, who, as Professor of History and Political Economy from 1880 to 1885, was the first head of the history department in Wesleyan University. The club was organized November. 16, 1914, by ten students in the department of history. Those undergraduates are eligible for membership who are taking the seminary course, who are registered for a major in the department, or who are taking work in the department equivalent to a major. Several members of the Faculty have been elected to honorary membership. Meetings are held at convenient intervals, usually at the fraternity houses. The following addresses were delivered before the club in 1922-23:

Professor Mead: Up and Down the Nile.

Mrs. Jackson Fleming: Problems of the Near East.

Mrs. Jackson Fleming: The Fascisti.

Mrs. Jackson Fleming: The Lausanne Conference.

Mrs. Jackson Fleming: France.

Leo Julius Meyer, B. A.: Meeting of the American Historical Association.

Rear Admiral Harry Shepard Knapp, U. S. N. (retired): The Washington Conference.

Professor Wriston: The Department of State.



## THE ATWATER CLUB.

The Atwater Club, named in honor of the late Professor W. O. Atwater, was organized in 1916 by the advanced students in the department of chemistry. Undergraduates who are majoring in chemistry, and who have attained an average of grade B in the department, are eligible to membership. Graduate students and members of the Faculty may be admitted to honorary membership by a three-fourths vote of the active members of the club. Meetings are held once a month, usually at the fraternity houses. The club has taken the lead in the organization of an alumni association of Wesleyan chemists. Besides papers by undergraduates, the following addresses were given in 1922-23:

Associate Professor Hill: Butter, Eggs, and Carrots.

Luther William Bahney, Scoville Manufacturing Company, Waterbury, Connecticut: The Metallurgy of Gold and Silver.

Herbert Wade Rinehart, M. A., Yale University: Chemistry of Plants.

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THE DELTA ALPHA ARTS CLUB.

The Delta Alpha Arts Club was organized in November, 1916, with a membership limited to twelve. The purpose of the club is to afford an opportunity for acquiring a better knowledge and appreciation of art and music, comparing their tendencies with the contemporary developments in poetry and drama, to make such permanent collections of art prints and sheet music as may be possible, and to cultivate general interest in the fine arts. The following addresses were given before the club in 1922-23:

Professor Dutcher: Various Types of Indian Architecture (illustrated).

Royal Cortissoz: Leonardo da Vinci (illustrated).

Assistant Professor Snow: Present Day Tendencies in Poetry, with Readings from "Maine Coast."

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THE FINE ARTS CLUB.

The Fine Arts Club was organized in 1919. Its aim is to stimulate interest in the fine arts among students at Wesleyan,

its ultimate goal being the establishment of a Fine Arts Department in the college. Undergraduates to be eligible for membership must show interest in the fine arts, and manifest a willingness to keep up such interest. There are a number of associate members from the Faculty and from the town. The club meets twice a month at the various fraternity houses, and has eight open meetings a year. The following addresses were given before the club in 1922-23:

Royal Cortissoz: Velasquez.

Royal Cortissoz: Great Figure Painters.

Royal Cortissoz: The Modernists.

Royal Cortissoz: The Genius of American Art.

Professor Curts: Paintings of the Renaissance Period.

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#### THE SHORT STORY CLUB.

The Short Story Club was organized in 1914 by about ten men, chiefly of the Sophomore class, who were interested in writing. The membership is at present limited to fifteen, elected from the three upper classes. Occasionally outsiders are invited to address the club, but the programs consist usually of plays, poems, stories, and discussions of live literary topics, contributed by the members. The meetings occur bi-weekly. The following addresses were given before the club in 1922-23:

Edwin Gile Rich, Maynard Publishing Company, Boston, Massachusetts: The Publishing Business and the Author.

Carl Sandburg: Original Poems and American Ballads.

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#### THE OXFORD CLUB.

The Oxford Club was organized in 1919 by a group of undergraduates who were preparing for religious work and who felt the need of a common bond. The purpose of the club is to maintain the interest of college men who are preparing for the ministry and to study problems relevant to Christian work. Any student who is definitely planning for work in the ministry, the Y. M. C. A., or some similar field is eligible for membership. The club meets at the various fraternity houses on the first Tuesday of each month. During 1922-23 the following addresses were given:

Associate Professor Chanter: The Old Testament.

Professor Hewitt: The Buckner Case.

Edward James Oxley Fraser, B.A., School of Missions, Hartford, Connecticut: Opportunities in the Mission Field and in Religious Education.

Dean James Albert Beebe, D.D., Boston University School of Theology: The Theological School and the Minister.

Reverend John Logan Davis, A.B., B.D., New Britain, Connecticut: The Forces Making Men.

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#### THE PRE-MEDICAL CLUB.

The Pre-Medical Club was organized in 1919. Membership is open to any student intending to study medicine. Meetings are held monthly, at the various fraternity houses. The following addresses were given before the club in 1922-23:

Kate Campbell Mead, M.D., Middletown: Medical Conditions in Europe.

John Elijah Loveland, M.D., '89, Middletown: The Mystics of Medicine.

Associate Professor Goodrich: The Biology of Death.

James Murphy, M.D., Middletown: Radium, the X-ray, and their Uses (with demonstration).

Wilbur Willie Swingle, Ph.D., Yale University: The Thyroid Gland and its Relation to our Growth and Development.

Chester Waterman, M.D., Connecticut State Hospital, Middletown: The History of the Insane.

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#### THE ADAM SMITH CLUB.

The Adam Smith Club was organized in the fall of 1920 for the study and discussion of problems in the field of economics. The active membership consists of about thirty students who are doing their major work in that subject. Graduate students and professors in the department are associate members. Monthly meetings are held for the consideration of some problem or question with economic implications. During the year 1922-23 the following addresses were given before the club:

Mr. Eliot: The four L's of the Northwest Lumber Industry.

Norman Thomas, League of Industrial Democracy: Wanted—A New Incentive.

Harold Morton Hine, '12, Travelers Insurance Company: Insurance.

Frank W. Hall, Manager of the Commodity Sales Department, General Electric Company: Commodity Sales for a Large Industry and Commercial Research.

John McIntyre Davis, '05, Kirby Manufacturing Company: Accounting as a Means of Business Control.

Howard Coonley, President of the Walworth Manufacturing Company and formerly Vice-President of the United States Emergency Fleet Corporation: The Workings of the Emergency Fleet Corporation and the Influence of Mr. Schwab.

Robert Fechner, member of the Executive Board of the International Machinists: The Railroad Problem from the Point of View of Labor.

John Elliot Slater, A. B., Assistant to the General Manager of the New York, New Haven, and Hartford Railroad Co.: The Railroad Strike.

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#### THE WILLIAM JAMES CLUB.

The William James Club was organized by undergraduates in the spring of 1921. Its purpose is to encourage interest in psychology. Undergraduate membership is limited to twenty men who are taking, or who have completed, three courses in psychology. Several members of the Faculty have been elected to membership. The club meets on the first Friday of each month from November to June.

## GENERAL REGULATIONS.†

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### REGISTRATION.

Every student of the Junior, Sophomore, and Freshman classes is required to present to the Dean, not later than June 1, a list of the studies which he proposes to take the next college year. A fee of two dollars shall be paid by each student who fails to present such a list on or before that date. At the same time, members of the Junior class are required to present the list of courses approved by the respective instructors for concentration groups. The incoming class must present a list of studies not later than August 1, if admitted to college prior to that date; if not, within a reasonable time after admission.

Every student is required to register at the beginning of the first semester of each year. A fee of two dollars shall be paid by each student who does not register at the time appointed.

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### QUOTA OF STUDIES.

The requirement for graduation is sixty hours of work in addition to the required courses in physical education. Freshmen, Sophomores, and Juniors must take not less than fifteen nor more than eighteen hours of work per week, and Seniors not less than twelve nor more than eighteen hours per week. Freshmen are strongly advised to take not more than fifteen hours of work per week. No student will be allowed to take less than the minimum nor more than the maximum above specified, without special permission of the Administration Committee. A fee of ten dollars per hour for the year is charged for all courses taken in excess of eighteen hours per week.

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† Copies of the detailed Regulations may be obtained from the Dean.

## GRADES.

The general character of the work of each student in each study is indicated by his assignment to one of six grades, grade A denoting the highest excellence, and grades E and F, failure to pass.

A student will not be graduated unless he attain a grade of C— or higher in thirty-eight of the sixty-three hours required for graduation.

The Dean sends to each student and to his parent or guardian, at the close of each semester, a report of his grades in all studies, together with a statement of class rank, and of conditions or deficiencies.

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## EXAMINATIONS.

Regular examinations are held at the end of the year, and during a specified period at the mid-year. Students on probation, and those who fail of promotion to the next higher class, are required to attend all exercises assigned them. The allowance of absences for others is as follows: in courses of two or more hours a week, one each semester for Freshmen and Sophomores, two for Juniors and Seniors. The allowance for honor students (those who have made an average for the past year of B or higher, and Freshmen who have made an average of B or higher in the first semester) is, for Freshmen and Sophomores, two; Juniors and Seniors, three. In a one-hour course not more than one absence is allowed in any semester. A student who has taken the allowed number of absences in any course, exclusive of those excused by the President or the College Physician or the Committee on Athletics, must thereafter present an excuse for every absence taken in that course, and in case he have one unexcused absence or deficiency in addition to the number allowed, he is excluded from examination and must take a special examination later, paying a fee of five dollars. Unexcused absences from the first or the last exercise of a term in any study will result in exclusion from examination in the subject in question.

Special written examinations are held during the week commencing with the Tuesday before the beginning of the first semester for all who have been excluded or excused from any of the examinations of the previous year. For these examinations application must be made to the Dean before September 1; if application is not made, and the examination is given, a fee of five dollars must be paid.

For the benefit of students who have not been examined in second semester subjects, special written examinations are held during the first few days after the Christmas recess, at times announced by the Dean. For these examinations application must be made before the close of the first term. A fee of five dollars is charged for each examination.

For the benefit of Seniors who have been excluded or excused from any of the examinations during the preceding part of the year, and for members of the lower classes who have been excused from such examinations, special written examinations are held during the first few days after the spring recess, provided that application for such examination is made by the candidate before the close of the second term.

A student who fails to pass a final examination in any study before that study is taken up by the next succeeding class is required, unless specially excused therefrom, to recite with that class, or, in the case of an elective study, to substitute some other elective therefor.

If a student applies for an examination and does not take it, he must pay a fee of five dollars.

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## PROBATION.

A student is placed on probation if in the mid-semester report or in the reports at mid-year or final examinations he is deficient in seven hours, or if he receives no mark above D+. (The term deficient includes, besides failure to pass, absence from examination without permission and exclusion from examination as a penalty for excessive absences.)

A student on probation is restored to normal standing whenever, in the mid-semester reports or in the reports of the

mid-year or final examinations, he has no deficiencies, and receives a grade not lower than C— in at least seven hours of work.

A student on probation who is deficient in seven hours at the time of the mid-year or final examinations is dropped from college, unless retained by special vote of the Faculty on recommendation of the Administration Committee.

A student on probation may not represent the college on any athletic, musical, or dramatic organization, and has no allowance of absences from recitations.

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## PROMOTION.

In order to be promoted from the Freshman class to the Sophomore class, a student must be free of entrance conditions, and must have, at the close of the fall special examinations, a record of passing in twelve hours of college work, and he must have attained a grade of C— or higher in not less than seven hours' work. In order to be promoted from the Sophomore to the Junior class, a student must have a record of passing in twenty-nine hours of college work, and he must have attained a grade of C— or higher in not less than seventeen hours' work. In order to be promoted from the Junior to the Senior class, a student must have a record of passing in forty-six hours of college work, and he must have attained a grade of C— or higher in not less than twenty-seven hours' work.

A student who has failed of promotion at the beginning of the year may recover rank with his class at the beginning of the second semester if he has met the requirements for promotion to his class together with half of the additional requirements for promotion to the next higher class.

A student who fails of promotion with his class must make at least nine hours of grade C— or better in each year following such failure, or he will be dropped from college. This rule is enforced by semester hours at mid-years, as well as at the end of the year by year-hours.

No allowance of absence from classes is granted to a student who fails of promotion.



## ENTRANCE CONDITIONS.

Conditions for admission may be made up at the periods set for special examinations immediately after the Christmas and the Easter holidays (provided application for such examinations be made before the holidays to the Dean), or at the regular examinations set for admission at the beginning of the year following entrance to college. A fee of five dollars is charged for an examination in entrance conditions taken at any other time than those above specified. If any student shall fail to make up his conditions at or before the regular examination for admission at the beginning of the year following his admission to college, he will not be promoted to any higher class. No student is permitted to return to college for a third year who is conditioned in any of the required units for admission to college.

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## LEAVE OF ABSENCE.

A student who desires excuse from college exercises on account of absence from town must apply to the President for permission to be absent, and, unless the circumstances of the case render it impracticable, such permission must be obtained before the student's departure.

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## PUBLIC WORSHIP.

Devotional services, which all students not excused for special reasons are required to attend, are held in Memorial Chapel every week-day at 7:50 A. M. and on Sunday at 11 A. M. The service on week-days is brief, consisting of Scripture lesson, hymn, and prayer. The Sunday service is of the same general nature as those in the churches, including a sermon or address.

A College Church was organized in 1916, under the name "The Church of Christ in Wesleyan University." Members of the student body or of the Faculty of Wesleyan University, and members of their families, may become members of this

church by signing the following declaration: "Gratefully trusting in the love of God revealed by Jesus Christ, we aim to live as true children of the Heavenly Father. We unite in a Christian fellowship, mutually promising sympathy in Christian life and work."

Membership in this church continues only during the time of a person's connection with Wesleyan University. It does not involve the discontinuance of membership in any church with which a person may have been previously associated. It is, on the contrary, assumed that in most cases the members of the College Church will be at the same time members of other churches in Middletown or elsewhere.

The President of the University is pastor of the College Church; the clerk is Professor William North Rice. There is a Standing Committee which meets from time to time at the call of the pastor, for conference in regard to the work of the church. This committee consists of the pastor, one representative chosen by the Faculty members of the church, who acts as clerk of the church, and six representatives elected by the student members of the church. The standing committee the present year consists of Acting President Howland, Professor Rice; R. F. Bowman, L. B. Hillyer, J. H. Maddaford, and M. L. Umpleby, of the Senior class; and L. B. Beach and N. Carpenter, of the Junior class.

Weekly contributions on the duplex-envelope plan are given for the expenses of the college Young Men's Christian Association, and for the support of West China Union University, in Chengtu, China. The founder and president of that institution is Rev. Joseph Beech, D. D., '99, and several other Wesleyan graduates are members of its Faculty or of its Board of Governors. It is supported by the coöperation of most of the missionary organizations which are at work in West China.

The speakers at the services of 1922-23 were as follows:

George Clarke Peck, D. D., Superintendent of the Maryland General Hospital, Baltimore, Md.

Irving Bacheller, Litt. D., L. H. D., Riverside, Conn.

Fleming James, Ph. D., Professor in Berkeley Divinity School, Middletown.

William Isaac Chamberlain, Ph. D., D. D., New York, N. Y.

- Nehemiah Boynton, D. D., New York, N. Y.  
Fred Burton Smith, Chairman, Commission of Church Councils, Federal Council of the Churches of Christ in America.  
Robert Watson, D. D., New York, N. Y.  
Romilly Francis Humphries, D. D., Archdeacon of Baltimore, Md.  
Lynn Harold Hough, D. D., Detroit, Mich.  
Bishop Edward Campion Acheson, D. D., Middletown.  
William George Chanter, M. A., S. T. B., Associate Professor of Ethics and Religion.  
Victor Garfield Mills, D. D., Baltimore, Md.  
Bishop Chauncey Bunce Brewster, D. D., LL. D., Hartford, Conn.  
Roy Bullard Chamberlin, M. A., Hanover, N. H.  
Bishop William Franklin Anderson, D. D., LL. D., Cincinnati, O.  
William Joseph Thompson, Ph. D., LL. D., Professor in Drew Theological Seminary, Madison, N. J.  
Bishop Edwin Holt Hughes, S. T. D., LL. D., Malden, Mass.  
Henry Hitt Crane, D. D., Malden, Mass.  
William North Rice, Ph. D., LL. D., Professor of Geology, *Emeritus*.  
Willard Learoyd Sperry, D. D., Boston, Mass.  
Thomas Wentworth Pym, M. A., D. S. O., Cambridge House, London, England.  
John Edgar Park, Newton, Mass.  
Samuel Parkes Cadman, D. D., L. H. D., Brooklyn, N. Y.  
Leon Kurtz Willman, D. D., Wilkes-Barre, Pa.  
Oscar Edward Maurer, D. D., New Haven, Conn.  
John Allan Blair, D. D., Philadelphia, Pa.  
Robert William McLaughlin, D. D., Worcester, Mass.  
John William Langdale, D. D., Brooklyn, N. Y.  
Dean James Albert Beebe, D. D., School of Theology, Boston University.  
Dean Duncan H. Browne, S. T. D., St. John's Cathedral, Denver, Colorado.  
Joseph Taylor, D. D., West China Union University.

### WESLEYAN CHRISTIAN ASSOCIATION.

The purpose of the Wesleyan Christian Association is to bring men into the Christian life and to develop them into strong and active Christians. Men are enlisted in Bible study; voluntary religious meetings are held weekly; boys' clubs, scout troops, and country Sunday schools are maintained under the leadership of college men; deputation teams visit the churches and preparatory schools to enlist young men for the Christian life; new students are aided in a great many ways; an employment bureau helps many needy students. These activities with others help to keep the men active in Christian work. The following is a list of the cabinet officers for 1923-24: President, J. H. Maddaford, '24; Secretary, I. N. Howard, '25; Bible Study, G. R. Thomas, '24; Missions, F. P. Frye, '24; Meetings, J. C. Gearhart, '25; Deputations, L. B. Beach, '25; Handbook, F. E. Lord, Jr., '24; New Students, R. W. Carr, '25; Social, F. K. Moll, '24; Publicity, R. F. Bowman, '24; Community Service, C. H. Deming, '24; Vocational Guidance, H. W. Griffis, '25; Editor Handbook, J. R. Swain, '25.

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### FACULTY COUNSELLORS FOR FRESHMEN.

A standing committee of three, appointed by the Faculty, serve as Freshman advisers. One member is also an administrative officer, and the committee are thus kept informed of all official actions affecting Freshmen. A student's choice of studies, both for his first and his second year, must have the approval of a member of this committee. If a student's work or conduct is unsatisfactory the advisers seek to discover and correct the cause, and they are ready at all times to aid with friendly counsel.

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### STUDENT ORGANIZATIONS.

No student who has failed of promotion from the class below, no student who is on probation or under censure, no member of the Freshman class who has an entrance condition in a subject required for admission, or more than one

unit of condition in elective subjects for admission, no special student, no graduate student, and no Senior who is permitted to count the Senior year in fulfilment of the requirement of residence for the Master's degree, is allowed to take part, as a member of a University athletic team, in any athletic contest, or to appear in any public exhibition of any musical or dramatic organization; or to represent the college in an inter-collegiate debate; or to serve as an editor of an undergraduate paper; or to act as manager, assistant manager, or candidate for assistant manager of any athletic, musical, or dramatic organization; or to serve as president of the Wesleyan Christian Association, or as president or secretary-treasurer of the College Body; and any student whose college work is unsatisfactory at any time during the college year may be debarred from taking part in the activities specified. No member of the Freshman class is allowed to represent the University on athletic teams during the first half of the year.

No student is allowed to represent the college on more than two of the following organizations in any college year, either as member, manager, assistant manager, or candidate for assistant manager, nor on any two that are active at the same time of the year, without special permission from the Administration Committee: Football, Basket-ball, Baseball, Track Athletics, Tennis, Glee Club, Dramatics. The Administration Committee has power to enforce a similar rule for debaters and for editors of the undergraduate paper.

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## ATHLETIC COUNCIL.

In 1903 the Trustees authorized the organization of an Athletic Council, composed of three representatives each from Faculty, alumni, and undergraduates. At Commencement, 1923, the Trustees placed the general supervision of athletic affairs of the college in the hands of the Faculty. The Athletic Council, however, continues to administer eligibility rules, except as regards scholarship, ratifies elections of captains and managers, and acts in an advisory capacity in the matter of approving schedules, selection of coaches, and other matters.

### PUBLICATIONS ADVISORY BOARD.

The Wesleyan Undergraduate Publications Advisory Board was organized in 1916, to act in an advisory capacity for the undergraduate publications. It assumes no financial responsibility for any of the publications coming under its supervision. It supervises the competition for positions on the editorial staff of the undergraduate publications, and on the basis of these competitions it appoints the business managers and editors. It has power to discharge any official who has proved himself incompetent after fair warning from the Board. It audits the accounts of the managers of the publications. The Board is composed of three representatives each from the alumni and the Faculty, the president and the secretary-treasurer of the College Body, and the editor-in-chief and the business manager of the undergraduate publications. The officers of the Board for 1923-24 are as follows: President, Professor Curts; Vice-President, C. F. Nettleship, Jr., '24; Secretary, F. C. Brodhead, '11; Financial Secretary, Associate Professor Hill. The members of the Board are: Professor Curts, Associate Professor Hill, and Assistant Professor Van Dyke; F. C. Brodhead, '11, Secretary of the Alumni Council, F. T. Davis, '11, and A. I. Prince, '15; C. F. Nettleship, Jr., '24, and R. W. Bristol, '24, representing the *Argus*; Z. M. Sykes, '24, and C. O. Wheeler, '24, representing the *Olla Podrida*; E. B. Knowles, Jr., '24, and J. W. Edgcomb, '25, representing the *Wasp*; M. L. Umpleby, '24, President, and L. B. Hillyer, '24, Secretary-Treasurer of the College Body.

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### MUSIC AND DRAMATICS BOARD.

The Music and Dramatics Board was organized in 1921 to supervise the musical and dramatic organizations. Concerts and trips are arranged by the undergraduate manager, subject to the approval of the financial secretary, who also audits all accounts.

The Board is composed of three members from the Faculty, three from the alumni, and six from the undergraduates. Of these six, two, the president and the secretary-treasurer of

the College Body, represent the undergraduates as a whole; while the leader and the manager of the Glee Club, and the president and the manager of the Paint and Powder Club represent these two organizations, but the representatives of neither club attend meetings called to consider business concerning the other club only.

The officers of the Board for 1923-24 are: President, Associate Professor Bussom; Vice-President, M. L. Umpleby, '24; Secretary-Treasurer, F. C. Brodhead, '11; Financial Secretary, Associate Professor Bussom. The members of the Board are: Associate Professor Bussom; Associate Professor Woods; Mr. H. L. Smith; F. C. Brodhead, '11, Secretary of the Alumni Council, J. C. Beebe, '07, and H. V. Leonard, '12; M. L. Umpleby, '24, and L. B. Hillyer, '24, President and Secretary-Treasurer, respectively, of the College Body; W. W. Woodford, '24, Leader, and C. A. Kellogg, '24, Manager, representing the Glee Club; R. F. Bowman, '24, President, and C. R. Coe, '25, Manager, representing the Paint and Powder Club.

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### DEBATE COUNCIL.

A Debate Council was organized in the Spring of 1921 as the governing body for debate activities. The members for 1923-24 are Assistant Professors Snow and Crecraft, representing the Faculty; F. C. Brodhead, '11, and Ernest A. Inglis, '08, the alumni; and the following undergraduates: M. L. Umpleby, '24, President, and L. B. Hillyer, '24, Secretary-Treasurer of the College Body, F. P. Frye, '24, Manager of Debate, and M. W. Smith, '24. The secretary of the Council is Frank C. Brodhead, '11.

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### MEDICAL SUPERVISION.

As soon as possible after the opening of the college year all Freshmen and all upper-classmen entering Wesleyan for the first time are required to present themselves for physical examination. This examination is given by the college physician, who is a member of the Faculty. The examination consists of the recording of facts relating to the past health of the student

**THE AMOS JAY GIVENS BIOLOGICAL FUND.** A fund of twenty-five thousand dollars has been given by Amos Jay Givens, M. D., LL. D., of Stamford, the income of which is to be used for the equipment and maintenance of the department of biology, or for the promotion of research in that department.

**THE MACHINE SHOP** occupies the west room in the boiler house, and is in charge of a skilled mechanician. It is equipped with first-class power lathes, planer, shaper, etc., and affords ample facilities for the construction of new apparatus, for purposes both of demonstration and of investigation; for the repair of apparatus already in use; and, to a limited extent, for the instruction of advanced students who have exceptional mechanical aptitude.

**MATHEMATICAL MODELS.** This collection, the gift of Ebenezer Hill (B. A., 1870), of South Norwalk, comprises a complete set of the models made by Brill of Darmstadt, for illustration in the higher branches of mathematics, as well as in mathematical physics and crystallography. The models are arranged in a series of cases in the mathematical reading-room in Observatory Hall.

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## GYMNASIUM AND ATHLETIC FIELD.

**THE FAYERWEATHER GYMNASIUM** is located on the north side of the rear campus, parallel with Wyllys Street. Its dimensions are 55 by 205 feet.

The basement contains a large room for shower baths, a room adjacent for rubbing and drying, a large locker room, and toilet rooms. On the first floor is the main hall of the gymnasium, which is well equipped and affords ample room for every variety of gymnastic exercise. The director's office and a dressing room for members of the Faculty are also on the first floor. Attached to the director's office is a private room for the college physician, which is used for consultation and examination. Special attention has been paid to ventilation, drainage, and lighting, and the building is believed to contain the best features of a modern gymnasium.

An addition to the main building, completed in January, 1914, contains a swimming pool measuring sixty by thirty feet.



The pool is lined with white ceramic tiles, with lanes in the bottom marked in blue, and is equipped with a life-rail and gutter, with markings showing depth and distances. The walls are of water-proof concrete painted brown, and the walk around the pool is of white tiles. The pool is nine and a half feet deep at the east end, and four feet deep at the west end. There is a gallery at the west end, entered from the main floor of the gymnasium. The pool is lighted by large windows at the east end, and by windows on the sides. Artificial lighting is furnished by a system of reflected light. Provision is made for a system of refiltering, and the pool is in every way sanitary. Above the pool are two excellent hand-ball and squash courts. A 12-lap running track, with a 45-yard "straightaway," encircles the whole of the second floor.

The mess hall, built in 1918 for use by the Student Army Training Corps, has been added to the equipment for physical training, and is used for hand-ball and other indoor games.

Exercise on the athletic field and in the gymnasium is required of the Freshman, Sophomore, and Junior classes three hours a week for the year. Elective work in the gymnasium is offered to the Junior and Senior classes. A well developed system of intramural sports affords opportunities for all to engage in competitive games.

THE ANDRUS FIELD lies in the rear of the main line of college buildings, south of the gymnasium, and between the two large college dormitories. The entire field, covering seven acres, is surrounded by a wire fence, and is used for both intercollegiate and intramural athletic games and practice. Three thousand portable bleachers have recently been added to the equipment, to be used for the accommodation of spectators at the intercollegiate contests. The field contains a quarter-mile track with a hundred-yard straightaway, and provides sufficient room for two baseball fields in the spring and two football fields in the fall. Its proximity to the college enables the whole student body to keep in close touch with the progress of training in all branches of athletics, and affords the teams opportunity to use the dressing rooms and baths reserved for them in the gymnasium.

In 1920 an additional baseball field was constructed on the Foss property, adjacent to Andrus Field. This provides a

practice field for the Freshman team, and for intramural games.

Five tennis courts at the east end of the gymnasium and eight additional courts on the hill adjacent to Andrus Field are for the free use of students, and are also used for instruction in tennis.

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## MUSEUM.

THE MUSEUM OF NATURAL HISTORY AND ETHNOGRAPHY occupies the upper stories of the Orange Judd Hall of Natural Science. The collections are arranged with special reference to their educational use, and are freely accessible to students.

The nucleus of the departments of zoölogy and botany was formed by the Shurtleff collection, collected by Simeon Shurtleff, M. D., and purchased by the University in 1868.

The zoölogical department received in the years between 1872 and 1881 most important accessions in liberal donations and exchanges from the Smithsonian Institution, and in collections made by the curators on the coast of New England, through the facilities afforded by the United States Commissioner of Fish and Fisheries. Expeditions to Bermuda, Florida, and Newfoundland also added large and valuable collections. Valuable collections of insects were presented by Richard L. de Zeng in 1896, and by Mrs. E. K. Hubbard in 1898. In 1908 a fine collection of birds' nests, and a collection of reptiles and amphibians, from Portland and Cromwell, was received from Mr. Charles H. Neff. At the death of Mr. Neff in 1911, his entire collection came as a legacy to the museum. The collection is rich in skins, mounted specimens, and eggs of the birds of Portland and vicinity. The zoölogical department includes about thirteen thousand species. The vertebrata of North America, the marine invertebrata of New England, and the mollusca in general, are especially well represented.

The herbarium comprises about five thousand species, representing quite fully the flora of New England, and including also many specimens from foreign localities. The large collection of Joseph Barratt, M. D., came into the possession of the university in 1879. The herbarium of Rev. Merrill Hitchcock, B. A., including about 700 specimens, of

which about 200 are from Connecticut, was presented to the museum in 1908.

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The ethnographical department is especially rich in specimens illustrating the life of the aborigines of North America. Important contributions of pottery, casts of implements, models of dwellings, and other objects, have been received from the Smithsonian Institution. A very valuable collection of objects from burial mounds near Chattanooga, Tenn., was deposited in the museum in 1896 by Hon. A. R. Crittenden, and has since then been purchased. The private collection of Mr. Loper, purchased in 1903, contains many interesting Indian relics from the vicinity of Middletown. The collection of local Indian relics has been greatly increased by the legacy of Charles H. Neff in 1911. The department also possesses a valuable collection of pottery from the guano beds of Peru, presented by Joseph S. Spinney; a collection of Mexican antiquities, presented by Hon. Arnold Shanklin, former United States Consul-General in Mexico; an interesting collection of weapons and other objects from the South Sea Islands; a collection of weapons and implements from equatorial West Africa, presented by Frederick B. Northam; a collection of relics from Assuan, Egypt, presented by Clarence S. Wadsworth, B. A.; and valuable collections of objects illustrative of Chinese life and customs, presented by Rev. Marcus L. Taft, D. D., Mrs. W. W. Wilcox, Rev. John Gowdy, D. D., and Rev. Joseph Beech, D. D. The collection of coins numbers about 4,500, exclusive of duplicates. Included in this number is a collection of about 1,800 Chinese coins, some of which are ancient and very rare, presented by Rev. Marcus L. Taft, D. D. Other valuable collections of Chinese coins have been received from Rev. John Gowdy, D. D., and Rev. Joseph Beech, D. D. A valuable collection of Greek and Roman coins and facsimiles of such coins, historical medals, and copies of such medals, was presented to the museum in 1906 by Stephen H. Olin, LL. D. Additional specimens subsequently presented by Dr. Olin make the number of specimens in this collection more than 600. The greater part of the ethnographical collection is at present arranged in the lower hall of the museum, with the collections in mineralogy and geology. The coins (with the exception of the Olin collection and certain other special collections placed on exhibition in the museum) are kept in a case in the classical seminary

room in Fisk Hall, where they can be seen by students and others on special application.

The following is an approximate statement of the number of specimens in the various departments of the museum:—

## DEPARTMENT OF ZOOLOGY.

Mammals—skins mounted and unmounted, - - -	225
alcoholic, - - - - -	50
skulls and skeletons, - - - - -	110
Birds—skins mounted and unmounted, - - -	2,000
nests and eggs, - - - - -	1,600
Reptiles, - - - - -	600
Amphibians, - - - - -	200
Fishes, - - - - -	2,100
Insects—pinned and alcoholic, - - - - -	6,500
nests, borings, etc., - - - - -	50
Crustacea, - - - - -	1,500
Worms, - - - - -	1,800
Mollusks—shells, - - - - -	90,000
alcoholic, - - - - -	4,000
Echinoderms, - - - - -	1,000
Cœlentera, - - - - -	1,700
Sponges and protozoa, - - - - -	150

## DEPARTMENT OF BOTANY.

Plants in herbarium, - - - - -	11,400
Specimens of wood, - - - - -	400
Miscellaneous botanical specimens, - - - - -	1,100

## DEPARTMENTS OF MINERALOGY AND GEOLOGY.

Minerals and rocks, - - - - -	22,100
Fossils—Paleozoic, - - - - -	11,500
Mesozoic, - - - - -	3,700
Cenozoic, - - - - -	3,000

## DEPARTMENT OF ETHNOGRAPHY.

Miscellaneous ethnographic specimens, - - -	4,400
Coins, - - - - -	7,000

The museum is open to the public on Wednesday and Saturday afternoons.

rooms for experimental work, elementary and advanced, in addition to lecture and apparatus rooms, photographic dark-rooms, storerooms, offices, a library, and a room for draughting and computing. There is also a tower 4 by 6 feet in cross section, with a height of 54 feet in the clear, which can be used for experiments requiring great vertical extension. A wooden mast on the roof supports the wireless aerial, the rooms for radio experiments being in the basement.

The building is equipped with a complete system of wiring for distributing to all points electric currents from the city mains as well as from the storage battery and generators in the basement. For the most part the interior is finished with exposed brick walls, painted a light tint, and with exposed floor timbers and pipe work.

THE NEW NORTH COLLEGE was occupied as a dormitory in January, 1908. It is of Portland brownstone, practically fireproof, 152 by 48½ feet in dimensions, four stories in height above a basement, and cost about \$135,000. The building contains one hundred and one rooms, arranged to satisfy varying demands. There are lavatories in the basement and on the third floor, supplied with tub and shower baths. The floor construction is of reinforced concrete throughout, and the stairs of iron and slate. The building is heated by steam from the central heating plant, and all rooms are lighted by electricity. All partitions in the basement, corridors, and stair-wells are of hollow terracotta brick.

SOUTH COLLEGE, which formerly was used for recitation rooms and studies, has been remodeled to serve as an administration building. The entrance to the building has been raised and a new flight of steps constructed as an approach. The old wooden staircases have been replaced by new ones of iron, with slate treads. The first floor is used as a general office, with private offices for the Vice-President and the Dean. The second and third floors contain the offices of the President and the Assistant Treasurer, and a spacious room, finished in quartered oak, used for Faculty and trustee meetings. On the fourth floor are a number of two-room suites for office use. A chime of bells, manufactured by the firm of Mears and Stainbank, of London, England, and presented to the college

by the class of 1863, has been placed in the tower of this building, which has been remodeled for the purpose.

**SWIMMING POOL.** Through the generosity of a friend of the college, an addition has been built on the east end of the gymnasium in which a swimming pool has been constructed, measuring sixty by thirty feet. The cost of the structure was approximately forty thousand dollars. The pool was opened for use in January, 1914. A more detailed description will be found on page 152.

**A NEW DORMITORY** was opened for use in September, 1916. It is located on the southwest corner of the rear campus. It is a four-story building, of Portland brownstone, about 173 feet long and 40 feet wide, except at the wings, which are nearly 57 feet in width. The cost of the building was approximately \$140,000. It contains thirty-four two-room suites and eighteen suites of three rooms. There are lavatories on each floor of each section.

**A REMODELED CHAPEL.** Through the generosity of Mr. Ralph H. Ensign, of Simsbury, Conn., and his son, Joseph R. Ensign, great improvements were made in the interior of Memorial Chapel in the spring and summer of 1916. By taking out the upper floor, the whole interior of the building has been converted into a spacious hall, with galleries. The seating capacity of the building has thus been increased from about five hundred to approximately seven hundred and fifty. John Gribbel, LL.D., of Philadelphia, Vice-President of the Board of Trustees, has presented the college with a fine new organ, built by the Austin Organ Company, of Hartford. By the gifts of other friends, elaborate windows in commemoration of five former presidents of the college have been placed in the chapel.

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## LIBRARY AND READING ROOMS.

**THE LIBRARY** in Rich Hall contains about one hundred and forty thousand volumes. The library is open every week-day of the college year from 8 A. M. to 10 P. M. Students are allowed direct access to the shelves.

The increase of the Library is provided for from the income of the following funds, amounting to \$225,115:—

THE ALUMNI LIBRARY FUND, \$39,425, the aggregate of numerous gifts from alumni and friends of the University.

THE HUNT LIBRARY FUND, \$33,882, established in 1898 by Rev. Albert Sanford Hunt (B. A., 1851, D. D., 1873), of Brooklyn, N. Y.

THE WILCOX LIBRARY FUND, \$22,588, established in 1904 by Mrs. Harriet H. Wilcox, of Brooklyn, N. Y.

THE WISE LIBRARY FUND, \$5,378, for the purchase of scientific books, established in 1911 by Rev. Daniel Wise, D. D., of Englewood, N. J.

THE MEAD LIBRARY FUND, \$5,375, established in 1911 by Miss Elizabeth J. Mead, of Stamford.

THE GONA LIBRARY FUND, \$161, established in 1911 by a friend of the department of chemistry for the purchase of books for that department.

THE JOHN BELL SCOTT LIBRARY FUND, \$2,070, established in 1917 by Miss Helen Boyce Scott in memory of her father, who graduated in 1881. The income is to be used for the purchase of books for the departments of philosophy and of ethics and religion.

THE HOYT LIBRARY FUND, \$10,086, established in 1919 by Miss Emily M. Hoyt, of Stamford.

THE CARNEGIE LIBRARY FUND, \$75,000, established in 1920 by the Carnegie Corporation of New York.

THE DUTCHER LIBRARY FUND, \$400, established in 1921 in memory of Merritt T. Dutcher, M.D., by his wife and children. The income of the fund is to be used for the purchase of books on medical subjects.

THE BURROWS LIBRARY FUND, \$20,000, established in 1921 by William H. Burrows, of Middletown, a Trustee of Wesleyan University from 1909 to 1917.



THE JAMES LIBRARY FUND, \$750, established in 1921 by William J. James (B.A., 1883), of Middletown. The income of the fund is to be used for the purchase of books dealing with the history and art of printing and book-making.

THE HUBBARD LIBRARY FUND, \$10,000, established in 1923, by a legacy from William P. Hubbard (B. A., 1863), of Wheeling, W. Va. The income of the fund is to be used for the purchase of books on economics, sociology, and allied subjects.

There is a reading-room in East Hall provided with daily and weekly newspapers. Another reading-room, on the second floor of Rich Hall, contains the current issues of the important magazines and reviews.

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## THE VAN VLECK OBSERVATORY.

The Van Vleck Observatory was dedicated June 16, 1916. This building is the gift of the late Joseph Van Vleck, brother of the late Professor John Monroe Van Vleck, and is located on the crest of the hill about three hundred yards due west of the Chapel. It is constructed of Portland brownstone.

The main part of the building is 40 by 80 feet, one-story high, and contains a class-room, library, time-room, computing-room, director's office, and an assistant's room. In a wing extending to the west is a transit-room, with piers for two three-inch transits. At the end of a second wing, extending to the east, is the tower and dome for the chief instrument, a telescope of 20 inches aperture, and 28 feet focal length. The glass for the lens was made in Jena, Germany; it was figured, ground, and polished by the Alvan Clark Company, of Cambridge, Mass.

For convenience in observing, the floor of the tower is an elevator, 33 feet in diameter, with a vertical range of 10 feet.

The basement contains two rooms for photographic work, a spectroscopic laboratory, and a workshop.

In addition to the telescope and two transits mentioned above, the observatory has a good equipment of apparatus for instruction and research. This includes two portable refractors, two spectroscopes, filar micrometer, photometer,

altazimuth instrument, reflecting circle, two sextants, a 4-inch photographic doublet, two clocks, two chronometers, chronograph, comparator for photographic plates, and a computing machine.

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## LABORATORIES AND APPARATUS.

THE LABORATORY OF EXPERIMENTAL PSYCHOLOGY occupies four rooms in Fisk Hall: a general laboratory and lecture-room, a smaller research laboratory, a construction and apparatus room, and a physiological dark-room. These rooms were designed expressly for their present use and contain electrical and other fittings of the most approved sort. The equipment of the laboratory is being increased to meet the demands of research as well as for more adequate class-room demonstration and elementary laboratory exercises. Among the more recent acquisitions may be mentioned: a set of preparations of the brain and spinal cord, a pendulum-tachistoscope, a projection apparatus designed for experimental purposes as well as for the projection of lantern slides, a mirror exposure apparatus of new design for studies in the psychology of reading, apparatus for the study of eye-movements and attention, a microscope sphygmograph and registering device, and an Einthoven string-galvanometer.

THE PHYSICS LABORATORY occupies the John Bell Scott Memorial, for a description of which see page 145. It is well equipped with apparatus for laboratory courses and for demonstration. In electricity, facilities are afforded for a wide range of methods of testing, with both alternating and direct current. Opportunity is also afforded for graduate instruction and research, especially in alternating currents, discharge through gases, and high-frequency oscillations. The equipment includes Geryk and Gaede rotary air-pumps, a Gaertner interferometer, chronograph and standard clock, stationary internal-combustion engine with Prony brake, Duddell oscillograph, Leeds and Northrup potentiometer, Compton electrometer, Rosa curve-tracer, and a large amount of apparatus for radio telegraphy.

In addition to the electrical equipment of the Scott Laboratory, the boiler house contains a 25-horse-power Ball engine,

and a 17½-kilowatt General Electric direct current generator, with accessory apparatus.

**THE CRAWFORD MEMORIAL FUND.** A fund of five thousand dollars has been given by Hanford Crawford, of St. Louis, in memory of the Reverend Morris D'Camp Crawford, who was a trustee of Wesleyan University from 1871 to 1896. The proceeds of this fund are devoted to the purchase of apparatus for the department of physics, or to the promotion of research in the same department.

**THE CHEMICAL LABORATORY** finds accommodation on the lower floors of Judd Hall. Two lecture and recitation rooms provide facilities for class instruction. The larger laboratory courses are accommodated in rooms adjoining the lecture rooms. The analytical laboratory contains over fifty desks, and in another room there are temporary desks for one hundred and fifty students in general and organic chemistry. Owing to the present crowded condition of the laboratories, temporary provision has been made in the John Bell Scott Memorial and in the room adjoining the machine shop for laboratory work in physical chemistry and quantitative analysis.

The very valuable library of chemical periodicals begun by the late Professor Atwater is housed in the chemical laboratory and is accessible to instructors and students alike.

Announcement was made at the opening of college, September, 1916, of a gift by Mrs. Gardiner Hall, Jr., of South Willington, Conn., in memory of her husband, for the construction of a new chemical laboratory.

**THE BIOLOGICAL LABORATORY** occupies five rooms in Judd Hall and three rooms in the John Bell Scott Memorial. Four rooms in Judd Hall are used for general laboratory purposes and the rooms in Scott Memorial for physiology and bacteriology. The equipment provides an abundance of material for anatomical, histological, and embryological study, and apparatus necessary for elementary biological, physiological, and bacteriological work. The general laboratory room contains a type collection illustrating all orders of animals, and students are allowed to use the large museum collection for comparison and direct study.

**THE AMOS JAY GIVENS BIOLOGICAL FUND.** A fund of twenty-five thousand dollars has been given by Amos Jay Givens, M. D., LL. D., of Stamford, the income of which is to be used for the equipment and maintenance of the department of biology, or for the promotion of research in that department.

**THE MACHINE SHOP** occupies the west room in the boiler house, and is in charge of a skilled mechanic. It is equipped with first-class power lathes, planer, shaper, etc., and affords ample facilities for the construction of new apparatus, for purposes both of demonstration and of investigation; for the repair of apparatus already in use; and, to a limited extent, for the instruction of advanced students who have exceptional mechanical aptitude.

**MATHEMATICAL MODELS.** This collection, the gift of Ebenezer Hill (B. A., 1870), of South Norwalk, comprises a complete set of the models made by Brill of Darmstadt, for illustration in the higher branches of mathematics, as well as in mathematical physics and crystallography. The models are arranged in a series of cases in the mathematical reading-room in Observatory Hall.

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## GYMNASIUM AND ATHLETIC FIELD.

**THE FAYERWEATHER GYMNASIUM** is located on the north side of the rear campus, parallel with Wyllys Street. Its dimensions are 55 by 205 feet.

The basement contains a large room for shower baths, a room adjacent for rubbing and drying, a large locker room, and toilet rooms. On the first floor is the main hall of the gymnasium, which is well equipped and affords ample room for every variety of gymnastic exercise. The director's office and a dressing room for members of the Faculty are also on the first floor. Attached to the director's office is a private room for the college physician, which is used for consultation and examination. Special attention has been paid to ventilation, drainage, and lighting, and the building is believed to contain the best features of a modern gymnasium.

An addition to the main building, completed in January, 1914, contains a swimming pool measuring sixty by thirty feet.

The pool is lined with white ceramic tiles, with lanes in the bottom marked in blue, and is equipped with a life-rail and gutter, with markings showing depth and distances. The walls are of water-proof concrete painted brown, and the walk around the pool is of white tiles. The pool is nine and a half feet deep at the east end, and four feet deep at the west end. There is a gallery at the west end, entered from the main floor of the gymnasium. The pool is lighted by large windows at the east end, and by windows on the sides. Artificial lighting is furnished by a system of reflected light. Provision is made for a system of refiltering, and the pool is in every way sanitary. Above the pool are two excellent hand-ball and squash courts. A 12-lap running track, with a 45-yard "straightaway," encircles the whole of the second floor.

The mess hall, built in 1918 for use by the Student Army Training Corps, has been added to the equipment for physical training, and is used for hand-ball and other indoor games.

Exercise on the athletic field and in the gymnasium is required of the Freshman, Sophomore, and Junior classes three hours a week for the year. Elective work in the gymnasium is offered to the Junior and Senior classes. A well developed system of intramural sports affords opportunities for all to engage in competitive games.

THE ANDRUS FIELD lies in the rear of the main line of college buildings, south of the gymnasium, and between the two large college dormitories. The entire field, covering seven acres, is surrounded by a wire fence, and is used for both intercollegiate and intramural athletic games and practice. Three thousand portable bleachers have recently been added to the equipment, to be used for the accommodation of spectators at the intercollegiate contests. The field contains a quarter-mile track with a hundred-yard straightaway, and provides sufficient room for two baseball fields in the spring and two football fields in the fall. Its proximity to the college enables the whole student body to keep in close touch with the progress of training in all branches of athletics, and affords the teams opportunity to use the dressing rooms and baths reserved for them in the gymnasium.

In 1920 an additional baseball field was constructed on the Foss property, adjacent to Andrus Field. This provides a

practice field for the Freshman team, and for intramural games.

Five tennis courts at the east end of the gymnasium and eight additional courts on the hill adjacent to Andrus Field are for the free use of students, and are also used for instruction in tennis.

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## MUSEUM.

THE MUSEUM OF NATURAL HISTORY AND ETHNOGRAPHY occupies the upper stories of the Orange Judd Hall of Natural Science. The collections are arranged with special reference to their educational use, and are freely accessible to students.

The nucleus of the departments of zoölogy and botany was formed by the Shurtleff collection, collected by Simeon Shurtleff, M. D., and purchased by the University in 1868.

The zoölogical department received in the years between 1872 and 1881 most important accessions in liberal donations and exchanges from the Smithsonian Institution, and in collections made by the curators on the coast of New England, through the facilities afforded by the United States Commissioner of Fish and Fisheries. Expeditions to Bermuda, Florida, and Newfoundland also added large and valuable collections. Valuable collections of insects were presented by Richard L. de Zeng in 1896, and by Mrs. E. K. Hubbard in 1898. In 1908 a fine collection of birds' nests, and a collection of reptiles and amphibians, from Portland and Cromwell, was received from Mr. Charles H. Neff. At the death of Mr. Neff in 1911, his entire collection came as a legacy to the museum. The collection is rich in skins, mounted specimens, and eggs of the birds of Portland and vicinity. The zoölogical department includes about thirteen thousand species. The vertebrata of North America, the marine invertebrata of New England, and the mollusca in general, are especially well represented.

The herbarium comprises about five thousand species, representing quite fully the flora of New England, and including also many specimens from foreign localities. The large collection of Joseph Barratt, M. D., came into the possession of the university in 1879. The herbarium of Rev. Merrill Hitchcock, B. A., including about 700 specimens, of

which about 200 are from Connecticut, was presented to the museum in 1908.

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skulls and skeletons, - - - - -	110
Birds—skins mounted and unmounted, - - - - -	2,000
nests and eggs, - - - - -	1,600
Reptiles, - - - - -	600
Amphibians, - - - - -	200
Fishes, - - - - -	2,100
Insects—pinned and alcoholic, - - - - -	6,500
nests, borings, etc., - - - - -	50
Crustacea, - - - - -	1,500
Worms, - - - - -	1,800
Mollusks—shells, - - - - -	90,000
alcoholic, - - - - -	4,000
Echinoderms, - - - - -	1,000
Cœlentera, - - - - -	1,700
Sponges and protozoa, - - - - -	150

## DEPARTMENT OF BOTANY.

Plants in herbarium, - - - - -	11,400
Specimens of wood, - - - - -	400
Miscellaneous botanical specimens, - - - - -	1,100

## DEPARTMENTS OF MINERALOGY AND GEOLOGY.

Minerals and rocks, - - - - -	22,100
Fossils—Paleozoic, - - - - -	11,500
Mesozoic, - - - - -	3,700
Cenozoic, - - - - -	3,000

## DEPARTMENT OF ETHNOGRAPHY.

Miscellaneous ethnographic specimens, - - - - -	4,400
Coins, - - - - -	7,000

The museum is open to the public on Wednesday and Saturday afternoons.

## FELLOWSHIPS AND SCHOLARSHIPS.

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### THE SQUIRE FELLOWSHIP.

This fellowship was founded in 1873, as the Squire Scholarship, by Hon. Watson Carvosso Squire (B. A., 1859, LL. D., 1911), of Seattle, Wash. In 1914 the principal of the fund was increased and the fellowship was established. It is open to Bachelors of Arts of Wesleyan University or of other colleges. The tenure of the fellowship is one academic year, with the possibility of reappointment for a second year. The income is not less than \$400 nor more than \$500. The Fellow shall devote himself to advanced study under the direction of the instructors in the department of Greek.

### THE RICH FELLOWSHIP

This fellowship was founded by Mr. William Thayer Rich, of Boston, Mass., a trustee of the University. The income is not less than \$450 nor more than \$550. It is awarded for graduate study in the department of economics and social science.

### TUITION SCHOLARSHIPS.

Each year the Trustees place at the disposal of the President, for the benefit of needy and worthy students, a sum of money which is used to pay, in whole or in part, the charge for tuition.

Tuition scholarships are intended to assist successful students who need financial aid to carry forward their college studies, and to assist well-prepared applicants for admission who give promise of creditable work, subject to suitable limitations.

A limited number of applicants may be assured, before entering college, of scholarship awards for the first semester. Such provisional scholarships shall be a maximum of \$70 for the semester. Application for these scholarships must be made on blanks supplied for the purpose, and must set forth satisfactory evidence of the student's financial needs which must be vouched for by his parent or guardian, and must include references to at least two other competent persons,

preferably his preparatory school principal and his minister. Applications will receive favorable consideration only upon receipt of satisfactory letters from the persons named as references, with regard to the character, scholarship, and financial needs of the applicant.

Applications from prospective students for scholarship aid should be filed at as early a date as possible. Favorable action cannot be assured unless the application is received prior to September 1.

Scholarships awarded for the first semester of the Freshman year will be continued for the second semester if the student has maintained a satisfactory standing in the work of the first semester.

Those desiring scholarship aid for the Sophomore, Junior, or Senior year must file, not later than June 30, similar applications containing complete and reasonably detailed statements of income and expenses for the preceding year. Scholarships for members of the three upper classes will be awarded in three groups according to the scholarship standing of the student in the portion of the college course already completed, if his needs warrant so much aid; to the first class, those with excellent grades, a full tuition scholarship of \$140 a year; to the second class, those with good grades, \$120; to the third class, those with average grades, \$100. Notice of the awards will be mailed to the applicants not later than August 1.

The amount of scholarships awarded will be credited on the semester bills. Scholarships regularly lapse at the close of each year. Scholarships will not be awarded to students failing of promotion, on probation, under censure, or not candidates for a degree.

Any one of the following reasons may cause the rejection of an application or the forfeiture of a scholarship already awarded:

- (a) evidence satisfactory to the committee that the scholarship is not needed;
- (b) expensive habits—failure to exercise proper economy in respect to room, board, or general living expenses will be regarded unfavorably by the committee;
- (c) serious neglect of studies;
- (d) breach of college discipline, indulgence in intoxicating liquors, or other gross misconduct.

If the cause of forfeiture has been removed, a scholarship may be restored after the lapse of a semester.

The committee on scholarships and loans has power, in exceptional cases, to waive the above regulations and to remit in full or in part the tuition or other charges.

All correspondence relating to scholarships must be addressed to the President of the University.

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Perpetual scholarships established by Jacob Atkins, John M. Howe, Ralph Mead, Charles C. North, Aaron Sanford, Jr., James Strong, Charles Woodbury, and the 27th Street Methodist Episcopal Church of New York City have been transferred to the University. These scholarships, which are at the disposal of the President, exempt the holders from the charge for tuition subject to the regulations set forth above.

In addition to these free tuition scholarships are the following:—

#### THE LOVELAND SCHOLARSHIP.

This scholarship was founded in 1874 by Miss Louisa Loveland. The income of \$2,879 is available, at the discretion of the Faculty, for the use of a deserving student who needs pecuniary assistance. For this scholarship only such students as intend to devote themselves to the work of the Christian ministry in the Methodist Episcopal Church can be candidates.

#### THE JOHN EVANS SCHOLARSHIP.

This scholarship was founded in 1883 by Mrs. Ann Evans in memory of her husband. The income of \$2,402 is given annually to that member of the Senior or Junior class who is named by the Board of Trustees, or by some authority to whom they may delegate the nomination. For this scholarship only such students as are preparing themselves for the ministry, and are already licentiates in the Methodist Episcopal Church, can be candidates.

#### THE KATHRIN MILLER CADY SCHOLARSHIP.

This scholarship was founded in 1916 by Mrs. Caroline L. Miller of Middletown in memory of her daughter. The income of \$3,043 is given annually to a graduate or undergraduate student for advanced study in the department of physics.

### THE WILLIAM DAY LEONARD SCHOLARSHIP.

This scholarship was founded in 1917 by friends of the late William Day Leonard, B. A., 1878. The income of \$2,713 is awarded annually by the Faculty to one of three undergraduates nominated by the College Senate. The undergraduates are from the Junior, Sophomore, or Freshman classes. Mr. Leonard's characterization of a man is as follows:

"Accomplished, without ostentation; grave, without austerity; gentle, without weakness; cheerful, without frivolity; conciliatory, but unbending; rigid in performance, yet indulgent toward all faults but his own."

Upon the basis of such characterization, the scholarship is awarded to the student who gives greatest promise of success through character, scholarship, physical endowments, personal popularity, and qualities of leadership.

The holder of the scholarship in 1923-24 is Marshall Lodge Umpleby, Class of 1924, of Uxbridge, Mass.

### THE WOODS HOLE SCHOLARSHIP.

A description of this scholarship will be found on page 65. In 1922-23 it was divided between Gordon Clark Ring, class of 1923, of Woronoco, Mass., and Donald William Leonard, class of 1925, of Newtonville, Mass.

### SCHOLARSHIP FUNDS.

The income of the following scholarship funds is available, at the discretion of the President, to pay, in whole or in part, the tuition of deserving students who need pecuniary aid:

**The Frank S. Jones Scholarship Fund, \$1,166,** founded in 1892 by Frank S. Jones, of Brooklyn, N. Y.

**The Billings Scholarship Fund, \$3,984,** founded in 1902 by William Perry Billings, of Kingston, Pa.

**The Starks Scholarship Fund, \$1,172,** founded in 1902 by Mrs. Elizabeth B. Starks, of Troy, N. Y.

**The Shonk Scholarship Fund, \$27,245,** founded in 1903 by John J. Shonk and Mrs. George W. Shonk, of Plymouth, Pa., in memory of Hon. George W. Shonk (B. A., 1873).

- The Philip Reynolds Scholarship Fund, \$1,171,** founded in 1903 by Philip Reynolds, of Brockton, Mass.
- The Shepherd Scholarship Fund, \$3,344,** founded in 1904 by James G. Shepherd, of Scranton, Pa.
- The Connell Scholarship Fund, \$3,455,** founded in 1905 by Hon. William Connell, of Scranton, Pa.
- The Swift Scholarship Fund, \$35,233,** founded in 1905 by Mrs. Annie M. Swift, of Chicago, Ill., in memory of her husband, Gustavus F. Swift.
- The George G. Reynolds Scholarship Fund, \$2,814,** founded in 1906 by Hon. George G. Reynolds (B. A., 1841), of Brooklyn, N. Y.
- The Cyrus D. Jones Scholarship Fund, \$5,536,** founded in 1906 by Cyrus D. Jones, of Scranton, Pa.
- The Harriet Townsend Reynolds Scholarship Fund, \$2,812,** founded in 1907 by Hon. George G. Reynolds (B. A., 1841), of Brooklyn, N. Y., in memory of his wife.
- The Frank Reynolds Scholarship Fund, \$2,812,** founded in 1907 by Hon. George G. Reynolds (B. A., 1841), of Brooklyn, N. Y., in memory of his son, who graduated in 1868.
- The Abigail Pennoyer Reynolds Scholarship Fund, \$2,779,** founded in 1908 by Hon. George G. Reynolds (B. A., 1841), of Brooklyn, N. Y., in memory of his mother.
- The Samuel D. Hubbard Scholarship Fund, \$11,103,** founded in 1910 by Miss Jennie M. Clarke, of Middletown, in memory of her uncle, Hon. Samuel Dickinson Hubbard, for many years a trustee of Wesleyan University.
- The Montgomery Scholarship Fund, \$1,100,** founded in 1910 by the Rev. John E. Adams, D. D., of Patchogue, N. Y., trustee of the Jane P. Fitch Benevolent Fund, in memory of Rev. James Montgomery.

**The Mead Scholarship Fund, \$2,475**, founded in 1911 by Miss Elizabeth J. Mead, of Stamford, in memory of her father, Rev. Nathaniel Mead.

**The Lewis Gunn Scholarship Fund, \$2,709**, founded in 1911 by Mrs. Mary C. Holman, of Hopkinton, Mass., and Mrs. Lillie G. Smith, of Washington, Conn., in memory of their father, Rev. Lewis Gunn.

**The Jane D. Boardman Scholarship Fund, \$10,729**, founded in 1911 in memory of Mrs. Jane D. Boardman, of Middletown, by the executors of her estate, Hon. Frank B. Weeks, of Middletown, and Dr. Joseph H. Townsend, of New Haven.

**The Robert Alfred Davison Scholarship Fund, \$5,550**, founded in 1912 by George Willets Davison (B. A., 1892), of New York, N. Y., and his wife, Harriet Baldwin Davison, in memory of their son.

**The Walter Hubbard Scholarship Fund, \$42,833**, founded in 1912 by Walter Hubbard, of Meriden.

**The Butler Scholarship Fund, \$5,000**, founded in 1912 by Seth H. Butler and his sons, Abbott G., Earle C., and Dale D. Butler, all of Middletown.

**The Alexander Montague Atherton Scholarship Fund, \$5,325**, founded in 1913 by Mrs. J. B. Atherton, of Honolulu, Hawaii, in memory of her son, who graduated in 1897.

**The Burr Scholarship Fund, \$3,149**, founded in 1915 by W. O. Burr, of Hartford.

**The Clarence Everett Bacon Scholarship Fund, \$1,042**, founded in 1916 in memory of Clarence Everett Bacon (B. A., 1878) by his wife, Mrs. Katharine S. Bacon, of Middletown, and his children, Katharine Whiting Bacon, Roger Whiting Bacon (B. A., 1910), and Clarence Everett Bacon, Jr. (B. S., 1913).

**The George L. Clark Scholarship Fund, \$6,206**, founded in 1916 by Hon. John C. Clark (B. A., 1886), of New York, N. Y., in memory of his father.

- The Davis Scholarship Fund, \$1,966**, founded in 1916 by Miss Ella A. Davis, of Stamford.
- The Roswell S. Douglass Scholarship Fund, \$3,648**, founded in 1916 by Mrs. Roswell S. Douglass, of Brookline, Mass., in memory of her husband, who graduated in 1861.
- The Alexander McLean Scholarship Fund, \$2,611**, founded in 1916 by Miss Ellen McLean, of Tarrytown, N. Y., in memory of Rev. Alexander McLean.
- The John R. Todd Scholarship Fund, \$2,611**, founded in 1916 by Miss Ellen McLean, of Tarrytown, N. Y., in memory of John R. Todd.
- The Terrill Scholarship Fund, \$2,608**, founded in 1916 by Rev. David G. Downey (B. A., 1884), of New York, N. Y., and his wife, Lilian Terrill Downey, in memory of Moses W. and Almira O. Terrill.
- The Julius Hotchkiss Scholarship Fund, \$2,611**, founded in 1916 by Miss Fanny Hotchkiss, of Middletown, in memory of Julius Hotchkiss.
- The Enoch Perkins Scholarship Fund, \$2,611**, founded in 1916 by Miss Cornelia A. Hotchkiss, of Middletown, in memory of Enoch Perkins.
- The Charles G. R. Vinal Scholarship Fund, \$2,611**, founded in 1916 by Charles G. R. Vinal (B. A., 1861), of Middletown.
- The George W. K. Taylor Scholarship Fund, \$2,578**, founded in 1918 by Mrs. Anna M. Taylor, of Brooklyn, N. Y., in memory of her husband.
- The William North Rice Scholarship Fund, \$5,021**, founded in 1920 by the New York East Conference of the Methodist Episcopal Church.
- The Payne Pettibone Scholarship Fund, \$10,000**, founded in 1921 by Mrs. Kate P. Dickson, of Wilkes-Barre, Pa., in memory of her father, a trustee of Wesleyan University from 1880 to 1888.



**The Reuben Nelson Scholarship Fund, \$10,000,** founded in 1921 by Mrs. Ellen N. Bennett, of Wilkes-Barre, Pa., in memory of her father, a trustee of Wesleyan University from 1877 to 1878.

**The Harvey Scholarship Fund, \$3,000,** founded in 1921 by Edwin B. Harvey (B.A., 1859), of Westboro, Mass.

**The John J. Shonk and Amanda Davenport Shonk Scholarship Fund, \$5,000,** founded in 1921 by Albert Shonk, of Kingston, Pa., in memory of his father and mother.

**The William F. Armstrong Scholarship Fund, \$25,000,** founded in 1921 by William F. Armstrong, of New York, N. Y.

**The Caleb T. Winchester Scholarship Fund, \$2,912,** founded in 1923 by the New York East Conference of the Methodist Episcopal Church.

**The Morrell Scholarship Fund, \$25,000,** founded in 1923 by Joseph B. Morrell, of New York, N. Y.

#### LOAN FUNDS.

Loans are made to deserving students from the principal of the J. Frederick Crumbie Memorial Fund and from the principal of the College Loan Fund. These loans bear a moderate rate of interest and are payable generally after graduation. They are usually restricted to members of the Junior or Senior classes. In addition the income of the Vinal Loan Fund, \$15,000, established in 1921 by Mrs. M. Amelia H. Vinal, of Middletown, and of the C. Hutchinson Dye Loan Fund, \$39,176, established in 1922 by C. Hutchinson Dye (Ph. B., 1884), of Washington, D. C., is available for students in need of assistance.

The Alumni Council Loan Fund, amounting to a total of \$5,000, is available for needy students, in such amount as is not already loaned. The loans, which are limited to \$200 per man per year, bear a moderate rate of interest, beginning six months after graduation or date of leaving college.

## COLLEGE HONORS.

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### PRIZES.

**THE PEIRCE PRIZE.**—A prize of fifteen dollars, the income of a fund given by Rev. Bradford K. Peirce, D. D., is awarded for excellence in natural science. It will be given in 1924 in the department of biology to the student who, having completed Course 1 with a high grade, passes the best special examination upon the second half of the course. The subject of the examination in 1925 will be chemistry; in 1926, geology.

**THE PHI BETA KAPPA PRIZE.**—A prize of twenty-five dollars, the gift of the Connecticut Gamma of Phi Beta Kappa, is awarded for excellence in Latin. It will be given in 1924 upon a special examination on Cicero's Letters.

No person who has once taken the Phi Beta Kappa prize may compete for it again.

**THE JOHN BELL SCOTT PRIZE.**—A prize of sixty-five dollars, the income of a fund given by the late Charles Scott, is awarded for excellence in the modern languages. It will be given in 1924 for the best essay in French on: Georges Clemenceau. Only present or former members of the class in French 3 may compete for this prize. In 1925 the prize will be given for work in the department of German.

**THE GIFFIN PRIZE.**—A prize of thirty dollars, the income of a fund given by Mrs. Giffin in memory of her husband, Rev. Charles Mortimer Giffin, D. D., is awarded for the best essay on the general topic of the English Bible. It will be given in 1924 upon a special examination covering the entire work in Course 1 in Ethics and Religion.

**THE CAMP PRIZE.**—A prize of thirty dollars, the income of a fund given in memory of Samuel T. Camp, is awarded for excellence in English literature. It will be given in 1924 upon a special examination in Course 6 in English.

**THE JOHNSTON PRIZE.**—A prize of twenty-five dollars, the gift of Rev. David G. Downey, D.D., LL.D., in memory of Professor John Johnston, is awarded for excellence in electricity. It will be given in 1924 upon a special examination based on Course 9 in physics.

**THE SPINNEY PRIZE.**—A prize of thirty dollars, the income of a fund given by Joseph S. Spinney, is awarded for excellence in Greek. It will be given in 1924 upon an examination based on Course 2 in Greek.

**THE RICE PRIZE.**—A prize of twenty dollars, given in memory of Rev. William Rice, D. D., is awarded for excellence in mathematics. It will be given in 1924 upon an examination based on Course 7 in mathematics.

**THE WALKLEY PRIZE.**—A prize of fifty dollars, the income of a fund given by the late Webster R. Walkley, D. C. L.—*in memoriam* David Hart Walkley, born April 23, 1857; graduated June 27, 1878; died September 16, 1878—is awarded for excellence in psychology. It will be given in 1924 to that member of the class in Psychology 3 who, maintaining honor standing in the course, presents the best essay on: The Nature, Conditions, and Enemies of Morale.

**THE GERALD PRIZE IN ENGLISH.**—A prize of twenty-five dollars, the gift of Herbert Parvin Gerald, B. A., 1882, is awarded for excellence in some special phase of the work in one of the courses in English literature assigned to the Junior year. It will be given in 1924 after some special test, to be announced later, on the work of Course 7 in English.

**THE GERALD PRIZE IN ECONOMICS.**—A prize of twenty-five dollars, the gift of Herbert Parvin Gerald, B. A., 1882, is awarded for excellence in the elementary course in economics. It will be given in 1924 upon a special examination on Course 1 in economics, to be held near the end of the year.

Students who compete for either the Camp, the Johnston, the Spinney, the Rice, the Walkley, or the Gerald prizes must do so during the year in which they regularly pursue the course or courses on which the examination for the prize is based.

**THE WISE PRIZE.**—A prize of twenty-five dollars, the income of a fund given by Rev. Daniel Wise, D. D., is awarded for excellence in ethics. It will be given in 1924 for the best essay on: Ethical Problems of Modern Industry. Essays should be handed to the Professor of Ethics and Religion on or before the first Monday in May (May 5, 1924).

**THE PRENTICE PRIZE.**—A prize of twenty-five dollars, given by the late Mrs. Elizabeth Brooks Prentice in memory of Professor George Prentice, is awarded to that member of the Senior or Junior class who excels in German. It is given in alternate years, and will not be awarded in 1925.

**THE SHERMAN PRIZE.**—A prize of fifteen dollars, the income of a fund given by Rev. David Sherman, D. D., is awarded this year to that member of the Freshman class who excels in mathematics. The subject of the examination in 1925 will be Latin; in 1926, Greek.

**THE HUBBARD PRIZE.**—A prize of twenty-five dollars, the gift of Nelson C. Hubbard, B. A., 1892, is awarded for the best essay submitted before the end of the first semester by a Freshman on the topic: The Freshman and his College; their Mutual Relationships and Responsibilities, or on some phase of that topic. The contest is under the direction of the instructors in English I.

**THE AYRES PRIZE.**—A prize of sixty-five dollars, the income of a fund given by Daniel Ayres, M. D., LL.D., is awarded to that member of the Freshman class who is found upon a special examination, held shortly after the beginning of the college year, to have attained the highest excellence in the studies of his preparatory course. The examination falls into three parts, covering the following subjects: (1) English, as required of all for admission; (2) algebra and plane geometry, as required of all for admission; (3) three years of a foreign language, ancient or modern, at the option of the candidate.

**THE RICH PRIZE.**—A prize of one hundred dollars, the income of a fund given by Isaac Rich, in memory of his wife, is awarded to that member of the Senior class whose oration at Commencement is deemed best in composition and delivery. These orations must not exceed fifteen hundred words in

length, and must be left with the Department of English on or before the first Monday in May (May 5, 1924).

**THE OLIN PRIZES.**—Two prizes,—a first prize of one hundred dollars and a second prize of fifty dollars,—the income of a fund founded by Mrs. Julia M. Olin and increased by Mrs. Emeline H. Olin, are awarded to members of the Senior class for excellence in English composition. The basis of the award is an essay of not less than 3,500 nor more than 6,000 words, upon any subject that can be satisfactorily treated in essay form. It is expected that the essay will be composed, at least in the form in which it is submitted, especially for this competition. The following subjects, indicating several kinds of topics which would be appropriate, are intended merely as suggestions:

1. The Art of Joseph Conrad.
2. Was Lincoln a Leader or a Follower of Public Opinion?
3. Recent Poetry as an Expression of the American Temperament.
4. Has the United States a Duty toward European Nations?
5. The Growth of Industrial Democracy.
6. Some Problems of Heredity.

Essays must be left with the Department of English on or before the first Monday in May (May 5, 1924).

**JUNIOR EXHIBITION PRIZE.**—A prize of twenty-five dollars is awarded to that member of the Junior class who presents the best oration at the annual Junior Exhibition. In the award of this prize both the composition and the delivery of the oration are considered. The orations must be left with the Department of English three weeks before the date of the Exhibition.

**THE COLE PRIZE.**—A prize of thirty-five dollars, the gift of George Henry Walker, B. S., in memory of Charles Edward Cole, is awarded to that member of the Freshman class who maintains the highest standing in English composition during the second and third terms of his Freshman year. Those who wish to compete should announce their intention by the beginning of the second term.

**THE BRIGGS PRIZE.**—A prize of ninety dollars, the income of a fund given by James E. Briggs, is awarded to the student who excels in debate. No person who has once taken the Briggs prize may compete for it again.

**THE PARKER PRIZE.**—A prize of twenty-five dollars, the income of a fund given by Rev. John Parker, is awarded to that member of the Junior or Sophomore class who excels in declamation.

The several committees of award will withhold any prize, if, in their judgment, none of the exercises presented in competition for it possess the requisite merit.

### AWARD OF PRIZES, 1922-23.

*The Peirce Prize*, to WENDELL WEST PHILLIPS, 1926.

*The Phi Beta Kappa Prize*, to LEONARD BROTHWELL BEACH, 1925.

*The John Bell Scott Prize*, to LAURANCE BRADFORD SNOW, 1923.

*The Camp Prize*, to SAMUEL MARVIN MIDDLEBROOK, 1925.

*The Johnston Prize*, to FREDERIC HENRY ADAMS, 1924.

*The Spinney Prize*, to TREVOR BREWSTER YATES, 1926.

*The Rice Prize*, to FLOYD MARSHALL INESON, 1925.

*The Walkley Prize*, to JOHN AINSWORTH DUNN, 1923. (Honorable Mention: MEAD WALWORTH, 1924).

*The Gerald Prize (English)*, to HENRY SHENK DAVIS, 1924.

*The Gerald Prize (Economics)*, to ERNEST WILFRED BYSSHE, JR., 1924.

*The Wise Prize*, to ROBERT CHENEY MANSFIELD, 1923.

*The Ayres Prize*, to EVERTON HARRY PARKINSON, 1926.

*The Rich Prize*, to HAROLD CANUTE BUCKINGHAM, 1923.

Committee of Award: Professor Robert Herndon Fife, Jr., Ph. D., Robert Chapin Parker, B. A., LL. B., and Reverend Herbert Duncan Rollason, B. A.

*The Olin Prizes.* First prize not awarded. Second prize to RISING LAKE MORROW, 1923.

*The Junior Exhibition Prize*, to MONROE WILLIAM SMITH, 1924.

Committee of Award: Ernest Alexander Inglis, Ph. B., LL. B., Reverend Herbert Duncan Rollason, B. A., and Robert Stockdale Telfer, M. A.

*The Cole Prize*, to ALBERT E. CLEGHORN, 1926.

*The Briggs Prize*, to FRANKLIN PIERCE FRYE, 1924.

Committee of Award: Professors Hewitt and Conley, Dr. Wilkinson, and Assistant Professor Snow.

*The Parker Prize*, to CHRISTIAN JUSTUS DORNECKE, JR., 1925.

Committee of Award: Francis Asbury Beach, Professor William North Rice, and Bertrand Edwin Spencer, B. A., LL. B.

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## APPOINTMENTS FOR JUNIOR EXHIBITION AND COMMENCEMENT.

The Junior Exhibition is held on the third Tuesday evening in March. Members of the class seeking appointment hand in an oration of not more than one thousand words on or before February 15th. Ten of the writers are selected to take part in a preliminary contest the first week in March, and from them are selected six to participate in the final contest on the third Tuesday in March.

The selection of speakers for Commencement is determined as follows. Members of the Senior class seeking appointment to speak at Commencement hand in an oration; from the eight competitors whose work is adjudged to be of the highest merit, four are selected by means of a contest in declamation.

The speakers last year were:

### JUNIOR EXHIBITION.

George Washington More, Jr.,    Monroe William Smith, Jr.,  
Ernest Dressel North,            Clarence Oliver Wheeler.

### COMMENCEMENT.

Harold Canute Buckingham,    Eliot Martin Newhall,  
John Ainsworth Dunn,           Laurance Bradford Snow.

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## HONORS IN SCHOLARSHIP.

### I. HONORS IN GENERAL SCHOLARSHIP.

Two grades of honors, designated respectively as honors and high honors, are conferred at graduation, based upon the general scholarship of the student throughout his whole course.

A student completing the requirements for graduation with grades in all courses or half courses completed averaging B shall be graduated with honor; with grades averaging A—with high honor.

## II. DEPARTMENTAL HONORS.

### GENERAL STATEMENT.

Two grades of departmental honors, designated respectively as Junior honors and Senior honors, are offered in the several departments.

Departmental honors are awarded for voluntary and intensive study, reading, research, or laboratory work done by the student within the general field of the courses taken as a major study, including, if desirable, other courses in the student's concentration group. While this work is usually supplementary and related to the regular courses, work of a wider and more independent scope and character may be accepted, provided it falls within the general field of the concentration group; but no such plan of work will be approved which would in any considerable degree duplicate a course which the student is counting for graduation.

The purposes of both grades of departmental honors are the development on the part of the student of initiative, power of independent investigation, and critical or constructive scholarship. They are intended to encourage the student to undertake work in connection with his courses beyond the customary requirements.

The candidate should realize that the responsibility for the prosecution of the undertaking rests with himself and not with his instructor. The work is to be carried on in consultation with a professor in the student's major department, but as far as practicable the choice of subjects and the conduct of the work is left to the candidate himself.

It is expected that candidates for departmental honors will not elect more than sixteen hours of courses in addition to the required work in physical education, and students planning to become candidates for Senior honors are advised to plan their previous elections so that they may take as nearly as possible the minimum quota of regular courses in the Senior year.



All work required for Junior and Senior honors must be completed before the beginning of the final examinations in June.

Awards of honors in general scholarship, of Junior and Senior departmental honors, and of honorable mention will be printed on the programme at Commencement, in the Catalogue, and in the Alumni Record, and will be suitably posted throughout the ensuing year.

#### JUNIOR HONORS.

Any Junior of normal standing may become a candidate for Junior honors. The amount of work should approximate that required of a three-hour course for one semester. Applications must be made not later than three months prior to Commencement, and a brief preliminary report of the work must be presented to the professor and by him to the committee on departmental honors at least two months before Commencement.

*Examinations.*—After suitable tests of the applicant's work by theses, reports, or other methods, the instructors in the department concerned shall present a recommendation to the committee on special honors. Then the committee is empowered to make such additional tests as it may deem necessary.

*Awards.*—Awards of Junior honors are made by the Faculty upon recommendation of the committee on departmental honors. No student is eligible who is not in normal standing in the Junior class, or who has failed to receive a grade of C— or higher in any course pursued at the same time as the departmental honor work. The candidate must have attained an average grade not lower than B in those courses which comprise the major portion of his concentration group so far as pursued, and in the departmental honor work.

#### SENIOR HONORS.

Any Senior of normal standing may become a candidate by applying not later than the tenth of October of his Senior year, at which time an outline of proposed study or investigation in connection with the courses which he is pursuing for his major study, or for his concentration group, shall be presented for approval to the professor in charge of the major study, and by

him to the committee on departmental honors. The amount of work shall approximate that of a three-hour year course.

A preliminary report must be submitted to the professor in charge, and by him to the committee, at least fifteen days before the close of the first semester, and if the report is unsatisfactory the candidacy is cancelled.

Upon recommendation of the professor, and with the approval of the administration committee, a student satisfactorily pursuing work for Senior honors may during the second semester receive an increased allowance of absences from college exercises, except in the case of announced written recitations and examinations, subject to revocation in case of abuse of the privilege.

*Examination.*—Upon recommendation of the instructors in the department concerned, candidates for Senior honors will be examined, both in the general field of their major study and in the departmental honor work, by the committee on departmental honors and such others as they may wish to associate with themselves. In the award of honors, a thesis, report, or other evidence of proficiency may also be considered.

*Awards.*—Awards of Senior honors are made by the Faculty upon recommendation of the committee on departmental honors. No student is eligible who does not hold regular standing in the Senior class, or who has failed to receive a grade of C— or higher in any course pursued at the same time as the departmental honor work. The candidate must have attained an average grade not lower than B in those courses which comprise the major portion of his concentration group so far as pursued, and in the departmental honor work.

High Senior honors may be awarded by the Faculty to candidates for Senior honors whose departmental honor work gives evidence of unusual capacity for independent investigation, and whose grades, in all courses in his concentration group, are A— or higher.

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*Honorable Mention.*—A student who did not receive Junior honors may comply with the requirements therefor in his Senior year, in which case he may be awarded honorable mention in the department.

## AWARD OF HONORS. COMMENCEMENT, 1923.

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### HONORS IN GENERAL SCHOLARSHIP.

#### HIGH HONORS.

John Ainsworth Dunn,                      Otto John Lang.

#### HONORS.

Edward Gowen Budd, Jr.,	Noah Stanley Lincoln,
George Robert Burns,	Osceola Currier McEwen,
David Walter Byrne, Jr.,	Robert Cheney Mansfield,
Edwin George Fisher, Jr.,	William Dufford Moyle,
Jonathan Robert Hoppock,	William Noble,
Walter Richard Kiernan,	Gordon Clark Ring,
Edward Olney King,	Edwin James Roberts,
Norman Wyman Storer.	

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### DEPARTMENTAL HONORS.

#### JUNIOR HONORS.

Biology: Robert Fortenbaugh Bowman.  
Romance Languages: Allison Hoyt Mitchell.

#### SENIOR HONORS.

Biology: Gordon Clark Ring.  
German: Bardwell Hastings Flower,  
          Laurance Bradford Snow.  
History: Richard Day Leonard,  
          Rising Lake Morrow.

## DEGREES.

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The following degrees are conferred by the University in course: Bachelor of Arts (B. A.), Bachelor of Science (B. S.), Bachelor of Philosophy (Ph. B.), Master of Arts (M. A.).

**THE BACHELOR'S DEGREE.**—The degrees of Bachelor of Arts, Bachelor of Science, and Bachelor of Philosophy are conferred on those who have met the requirements for admission to the respective courses as set forth on page 41, and have taken the required quota of studies in college, as prescribed on pages 118-120.

The baccalaureate degree is awarded *summa cum laude* to a student who takes both high general and high Senior departmental honors; *magna cum laude*, to a student who takes either high general or high Senior departmental honors; *cum laude*, to a student who takes either general or Senior departmental honors.

**THE MASTER'S DEGREE.**—The degree of Master of Arts is conferred in accordance with the following regulations:—

1. The degree of Master of Arts is conferred upon Bachelors of Wesleyan University, of at least one year's standing, at the satisfactory conclusion of a course of advanced, non-professional study, pursued in residence for a period of not less than one year.\* This course of study is under the

\* Candidates for the Bachelor's degree who satisfy the requirements for honors in general scholarship may in their Senior year be admitted to candidacy for the Master's degree, provided that the amount of their undergraduate work remaining to be completed at the close of the September special examinations does not exceed three hours. Except by express permission of the Committee on Graduate Instruction, their undergraduate work must satisfy the group requirement in such manner that they are free to elect the remaining three hours in the department or departments in which they intend to do graduate work. Such candidates shall not be members of any athletic or debating teams, musical or dramatic organizations, or take part in any similar undergraduate activity. This rule, however, does not necessarily debar them from competing for any prize for which they would be eligible as undergraduates. The entire work of these candidates is under the direction of the Committee on Graduate Instruction. The Master's degree will not be conferred upon them until the Commencement succeeding that at which the Bachelor's degree has been conferred.

full direction of the Committee of the Faculty on Graduate Instruction, composed of three permanent members with the addition of the instructor in charge of each department in which the candidate pursues work.

2. In the case of Bachelors of other colleges whose course of study is accepted by the Committee on Graduate Instruction, or who pass such additional examinations as the Committee may prescribe, the degree of Master of Arts is conferred on the conditions prescribed in the case of Bachelors of Wesleyan University.

3. Graduate students, excepting assistants and fellows, pay the regular tuition and laboratory fees. A fee of five dollars is required of every candidate for the Master's degree at his registration, and a fee of ten dollars is required before the degree is conferred. Both fees are payable to the Assistant Treasurer of the University.

4. Evidence of the candidate's proficiency in the approved course of study is given in one or more of the following ways, as the Committee may prescribe: (*a*) by examinations, oral or written; (*b*) by a thesis; (*c*) by the exhibition of scientific specimens, preparations, or processes. All such tests of proficiency are under the direction of the Committee, who will report to the Faculty proper candidates for the degree.

In addition to these regulations of the trustees, the Committee on Graduate Instruction has from time to time adopted standing rules of procedure, among which the following should be noted as specially important:—

A prospective candidate for the Master's degree must apply to the secretary of the Committee on Graduate Instruction. Such application must be made not later than October 15 of the academic year during which he proposes to conclude his studies for the degree. On receipt of such an application, the Committee will consult the instructors concerned, who will communicate with the candidate, if necessary, and will prepare a course of study and submit it to the Committee. The course of study prescribed for the candidate may be confined to a single department, or may include work in more than one department; but the Committee does not usually approve courses including work in more than two departments, nor in any case a course which is lacking in unity.

When the course of study submitted by the instructors has been approved by the Committee, and the receipt for the payment of the required fees has been presented to the secretary of the Committee, the candidate will be formally admitted. He will then receive an official copy of the course of study prescribed for him, including a statement of the number and character of the examinations required.

Whatever other tests of proficiency may be prescribed, each candidate for the Master's degree is required to pass an oral examination in the presence of the Committee, upon the whole, or a previously specified part, of his course of study.

All examinations of candidates for the Master's degree are conducted at the University.

Unless the Committee, for important reasons, determines otherwise in some specific case, no examinations will be given (except in regular college courses), and no thesis or other work prescribed in preparation for the degree will be received, after the beginning of the final examinations in the academic year in which the candidate desires to be recommended for the degree.

When the preparation of a thesis is prescribed, the candidate is required to present through the Secretary, at or before the time of his final examination, two copies thereof for preservation. Such theses are to be neatly and accurately printed, or type-written, on paper of letter size, and substantially bound. A model of suitable execution may be seen at the University Library.

A complete statement of these rules may be obtained by applying to Professor W. A. Heidel, Secretary of the Committee on Graduate Instruction, to whom also all communications from prospective candidates should, in the first instance, be addressed.

DEGREES CONFERRED.  
COMMENCEMENT, JUNE 18, 1923.

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## DEGREES IN COURSE.

The Degree of Bachelor of Science was conferred on:

William Edwin Bagg, Jr.,	Wilbur Ezra Mansfield,
Charles Reichard Bray,	John Weld Markham,
Edward Gowen Budd, Jr.,	Walter Major Neely,
Albert Quigg Butler,	Samuel Davis Pinsker,
George Christopher Conway,	Delcour Stephen Potter,
Foster Benedict Cooper,	Stanley Hemingway Purdy,
Arthur Clayton Dodge,	Soren Douglas Rees,
Carlos Bent Ellis, Jr.,	George Carl Richter,
William Bradford Gifford,	Gordon Clark Ring,
Louis Edward Jules Gregory,	Guy Pendexter Seeley,
Roderick Burling Hallock,	Laurance Bradford Snow,
Willis Charles Hatfield,	Oscar Frederick Soderman,
James Edward Henderson,	Laurence Francis Southwick,
Jonathan Robert Hoppock,	Asa Bertram Steeves,
John Henry Irons, Jr.,	Charles Bragdon Stone,
Clayton Hull Jacobs,	Norman Wyman Storer,
Walter Richard Kiernan,	Jesse Ireland Taylor,
Edward Olney King,	Harry Charles Underwood,
Frederick DeLand Leete, Jr.,	Chester Herbert Walter,
Anson Crawford Lowitz,	Morris Herman Wrubel,
Osceola Currier McEwen,	Alfred Everett Yeaton.

The Degree of Bachelor of Philosophy was conferred on:

George Walker Bisset,	Richard Day Leonard,
Joseph Hamilton Boyd, Jr.,	Samuel Benajah Link,
Herbert Henry Brandreth,	Frederick Francis Lovejoy, Jr.,
Otto John Lang,	Edward Chapman McEachran,
	Everett Albert Robison.

## The Degree of Bachelor of Arts was conferred on:

Henry Dimmick Baldy,	Noah Stanley Lincoln,
Wilbur Fraser Bolen,	Joseph Magnano,
Harold Canute Buckingham,	Robert Cheney Mansfield,
George Robert Burns,	Joseph Layton Moore,
David Walter Byrne, Jr.,	Rising Lake Morrow,
Carl Ferdinand Christianson,	William Dufford Moyle,
Arthur Moreau Clark,	Walton Lewis Multer,
David Hudson Corkran, Jr.,	Charles Lewis Murdock,
Hugh Abram Doney,	Eliot Martin Newhall,
John Ainsworth Dunn,	William Noble,
Elwyn Arvon Ellis,	Hermon Norton,
George Phillips Ellsworth,	Samuel David Pinsker,
Edwin George Fisher, Jr.,	Paul Wesley Poley,
Bardwell Hastings Flower,	James Arthur Pyne,
John Emory Fricke,	Edwin James Roberts,
John Robert Galvin,	Ralph Godfrey Saxe,
Charles Joseph Johnson,	Russell Simmons Scudder,
Henry Wiley Leland,	Charles Lawrence Smith,
Bruce LeGrande LeSuer,	Peter Vogel,
Daniel Chester Warlow.	

## The Degree of Master of Arts on examination was conferred on:

- Herbert Eli Arnold, B.S., 1921. Subject: Mathematics. Thesis: "The Value of a Mean."
- Edward Lawrence Christie, B. A., 1921. Subject: English. Thesis: "The Mutual Relation of Byron and Shelley."
- James Maitland Clark, B.S., 1922. Subject: Chemistry. Thesis: "The Hydrolysis of Antimony Trichloride and the Properties of Tetrantimony Pentoxydichloride."
- Alice Esther Garvin, B. S. (Columbia University), 1920. Subject: History. Thesis: "The Relations between the United States and Mexico during the last Twenty Years."
- Herbert Gurnee, B. A., 1922. Subject: Philosophy. Thesis: "Intuition as a Method of Discovering the Nature of Reality, with Special Reference to the works of Arthur Schopenhauer and Henri Bergson."
- John Stanley Lachowicz, B. S., 1922. Subjects: Chemistry, Biology. Thesis: "A Study of Omega-Benzylpinacolone."



Elford Floyd Lounsbury, B. A., 1919. Subjects: Greek, Latin.  
Thesis: "The Origin of Attic Comedy."

James Bliss MacLean, B. A., 1922. Subject: Mathematics.  
Thesis: "The Problem of  $n$  Bodies."

Howard Theodric Westbrook, B. A. (Hamilton College), 1922.  
Subjects: Greek, Latin. Thesis: "Tragedy, Ancient and Modern."

#### HONORARY DEGREES.

The Degree of Doctor of Science was conferred on:

Robert Mearns Yerkes, psychologist.

The Degree of Doctor of Humane Letters was conferred on:

George Hubbard Blakeslee, B. A., 1893, Professor in Clark University.

The Degree of Doctor of Laws was conferred on:

James Rowland Angell, President of Yale University.

William Snowden Sims, Rear Admiral, United States Navy.

Henry White, diplomat.

## PUBLICATIONS.

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ALUMNI RECORD.—Through the liberality of Orange Judd, M. A., a Biographical Record of the Alumni of the University was published in 1869. A fifth edition of this Record, revised and corrected, was issued in January, 1922. This edition contains not only the record of alumni, revised and corrected to the date of publication, but also a list of all former students not graduates, with their residences, and such other information with reference to them as the most thorough search could obtain. It includes also a brief account of the honorary alumni and the members of the Faculty not graduates of Wesleyan. Copies of this edition may be had upon application to the librarian, W. J. James. The price of the Record, postage prepaid, is \$2.00.

An address list of the living graduates, non-graduates, and honorary alumni, together with a geographical list, is published annually by the Alumni Council as one number of the *Bulletin*. Information as to change of address should be sent to the Alumni Secretary, Mr. F. C. Brodhead, Middletown, Conn.

BULLETIN.—The *Bulletin* was first issued in 1888, and has since been published twice a year (usually in May and December), under the direction of a committee of the Faculty. It contains accounts of trustee and alumni meetings, lists of recent gifts, statements of the most urgent needs of the University, changes in the Faculty and courses of study, department notes, and various other matters of interest to the alumni and friends of the institution. The Annual Catalogue, and the Address List of Alumni, also published annually, appear as numbers of the *Bulletin*. The *Bulletin* is sent to the trustees and alumni, and may be obtained by other friends of the University upon application to the Dean.

WINCHESTER MEMORIAL VOLUME.—In June, 1921, a committee appointed by the Board of Trustees published a book of 346 pages with the title, A Memorial to Caleb Thomas Winchester. This volume contains the text of the six addresses

made at the complimentary dinner tendered Professor Winchester in June, 1919, two biographical sketches which appeared shortly after his death, and numerous memorial addresses, resolutions, and press notices. There is also an account of Professor Winchester as a public lecturer, together with a bibliography of his published writings, and a description of the various courses which he taught in Wesleyan University. There are six full-page illustrations. The book may be obtained for one dollar and a half from the Secretary of the Alumni Council, East Hall, Middletown.

**THE BENNETT LECTURES.**—The University publishes the lectures which are delivered from year to year on the George Slocum Bennett Foundation. Four volumes of this series are now ready. The names of the lecturers and their subjects may be found on page 121. These works are published by the Abingdon Press, New York, and can be obtained from book-sellers at one dollar and a half each.

**NECROLOGY.**—A list of deceased graduates of the University is published annually in the Spring *Bulletin*. All persons who can supply information for future lists are urgently requested to communicate the same to Dean F. W. Nicolson.

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## EMPLOYMENT BUREAUS.

An employment bureau is maintained in the office of the Dean for the purpose of securing positions as teachers for graduates of the college. Those who wish to avail themselves of the opportunity thus offered are invited to register; and the alumni and friends of the college are urgently requested to inform the Dean of any vacancy coming to their notice which might be filled by a Wesleyan graduate.

An employment bureau is maintained by the Young Men's Christian Association through which needy undergraduates are aided in securing employment during the college year and the summer vacation. Those who wish to avail themselves of this opportunity are invited to register. Alumni and friends of the college are requested to inform the Secretary of the Association of any vacant positions which might be filled by Wesleyan men. No fees are charged in either bureau.

## THE ALUMNI COUNCIL.

The Alumni Council is composed of one representative each from the classes that have graduated, and of members at large, elected by the Council, none of whom may be members of the Board of Trustees or of the Faculty of the college.

This basis of organization makes the Council fairly representative of the entire body of the alumni.

Its object is to strengthen the relations of the alumni and the University, and to bring all Wesleyan graduates and non-graduates into one compact body working for the interests of the institution.

The Council maintains offices in East Hall, with an efficient equipment at the service of the alumni, which provides a ready means of communication among the alumni themselves, and between the alumni, the undergraduates, and the authorities of the college.

### OFFICERS AND MEMBERS OF THE COUNCIL, 1923-24.

#### CHAIRMAN.

Franklin T. Kurt, '95, 553 Boylston St., Boston, Mass.

#### VICE-CHAIRMAN.

Winfred B. Holton, Jr., '10, 30 Broad St., New York, N. Y.

#### SECRETARY.

Frank C. Brodhead, '11, 2 East Hall, Middletown.

### EXECUTIVE COMMITTEE (Chairmen of Standing Committees).

C. R. Berrien, '96,	Finance.
R. C. Parker, '93,	Class Organizations.
C. F. Price, '02,	Publicity.
A. B. Haley, '07,	Alumni Associations.
C. H. Tryon, '05,	Undergraduate Activities.
G. I. Bodine, Jr., '06,	Preparatory Schools.
W. B. Holton, Jr., '10,	Athletics.

## MEMBERS AT LARGE.

C. S. Neumann, '02,	G. I. Bodine, Jr., '06,
C. F. Price, '02,	O. F. McCormick, '07,
K. M. Goode, '04,	E. D. Deremer, '10,
J. M. Davis, '05,	G. G. Davidson, '13,
S. F. Hancock, '05,	A. I. Prince, '15.

## CLASS REPRESENTATIVES.

## CLASS.

1872 C. F. Rice,  
 1873 C. A. Hart,  
 1878 D. L. Robertson,  
 1882 B. M. Gallien,  
 1884 C. A. Littlefield,  
 1886 J. C. Packard,  
 1888 W. M. Cassidy,  
 1889 G. E. Manchester,  
 1890 W. W. Thompson,  
 1891 G. L. Plimpton,  
 1892 R. M. Grant,  
 1893 R. C. Parker,  
 1894 E. C. Treat,  
 1895 F. T. Kurt,  
 1896 C. R. Berrien,  
 1897 W. A. Thompson,  
 1898 R. T. Jones,  
 1899 J. E. Tackaberry,  
 1900 W. MacNaughten,  
 1901 W. P. Ogden,  
 1902 R. A. Anderson,

## CLASS.

1903 H. H. Smith,  
 1904 L. De V. Day,  
 1905 C. H. Tryon,  
 1906 W. G. Murphy, Jr.,  
 1907 W. C. North,  
 1908 E. A. Inglis,  
 1909 H. S. Guy,  
 1910 W. B. Holton, Jr.,  
 1911 F. T. Davis,  
 1912 H. V. Leonard,  
 1913 R. I. Laggren,  
 1914 H. L. Pratt,  
 1915 F. B. Upham, Jr.,  
 1916 R. E. Baldwin,  
 1917 H. S. Baldwin,  
 1918 L. I. Pitt,  
 1919 A. Dodd,  
 1920 F. M. Davenport, Jr.,  
 1921 D. L. Hartman,  
 1922 A. P. Robertson,  
 1923 O. J. Lang.

## EX-SECRETARIES.

W. F. Sheldon, '99,  
 A. B. Haley, '07,  
 R. B. Chamberlin, '09.

## ALUMNI ASSOCIATIONS.

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### WESLEYAN ALUMNI CLUB OF NEW ENGLAND.

*President*—Robert Fulton Raymond, ex-'81, Boston, Mass.

*Secretary*—Benning Lewis Wentworth, ex-'14, 75 Beech St., Melrose, Mass.

### WESLEYAN UNIVERSITY CLUB OF NEW YORK.

*President*—Clarence Fletcher Corner, '03, Brooklyn, N. Y.

*Secretary*—Francis Bourne Upham, Jr., '15, 80 Broadway, New York, N. Y.

### WESLEYAN UNIVERSITY ALUMNI CLUB OF NORTHEASTERN PENNSYLVANIA.

*President*—Ralph Walter Rymer, '00, Scranton, Pa.

### WESLEYAN ALUMNI ASSOCIATION OF NEWARK AND VICINITY.

*President*—Clarence Everett Bacon, '13, Montclair, N. J.

*Secretary*—Franklin Edward Fellows, '21, 790 Broad St., Newark, N. J.

### PHILADELPHIA WESLEYAN ALUMNI ASSOCIATION.

*President*—John Ronald Ott, '21, Philadelphia, Pa.

*Secretary*—Horace Glenn White, '09, 4510 Walnut St., Philadelphia, Pa.

### WESLEYAN ALUMNI ASSOCIATION OF THE MIDDLE WEST.

*President*—John McCarthy, '83, Evanston, Ill.

*Secretary*—Frank Hopewell Underhill, '18, 326 W. Madison St., Chicago, Ill.

### WESLEYAN ALUMNI ASSOCIATION OF MAINE.

*Secretary*—Paul Nixon, '04, Brunswick, Me.

### WESLEYAN ALUMNI ASSOCIATION OF WASHINGTON, D. C.

*Secretary*—George Wood Vinal, '06, National Bureau of Standards, Washington, D. C.

### WESLEYAN ALUMNI CLUB OF EASTERN NEW YORK.

*President*—Seward Vincent Coffin, '89, Albany, N. Y.

*Secretary*—Harold Purcell Winchester, '14, 590 Morris St., Albany, N. Y.

## WESLEYAN ALUMNI CLUB OF WESTERN NEW YORK.

*President*—Harold Charles Hutchison, '87, Buffalo, N. Y.  
*Secretary*—Harry Clarke Bruner, '19, 162 Christiania St.,  
Buffalo, N. Y.

## WESLEYAN ALUMNI CLUB OF DETROIT.

*President*—Frederick Wright Robbins, '80, Detroit, Mich.  
*Secretary*—Perry Childs Hill, '99, Care Detroit Twist Drill Co.,  
Detroit, Mich.

## WESLEYAN ALUMNI CLUB OF CINCINNATI.

*President*—Albert Julius Nast, '68, Cincinnati, Ohio.  
*Secretary*—Richard Sutton Rust, '12, Union Central Life Ins.  
Co., Cincinnati, Ohio.

## WESLEYAN ALUMNI ASSOCIATION OF ROCHESTER, N. Y.

*President*—James Halstead Boucher, ex-'74, Rochester, N. Y.  
*Secretary*—Andrew Reed Sutherland, '11, Rochester Savings  
Bank Bld'g., Rochester, N. Y.

## CONNECTICUT ALUMNI ASSOCIATION.

*President*—Harry Arthur Batchelder, '97, Hartford.  
*Secretary*—Clifford Clark Payson, '18, 64 Pearl St., Hartford.

## NEW HAVEN ALUMNI ASSOCIATION.

*President*—Samuel Alfred Moyle, '98, New Haven.  
*Secretary*—Ira Davis Joel, '14, Kolynos Co., New Haven.

## WESLEYAN ALUMNI ASSOCIATION OF NEW BEDFORD.

*President*—Augustus Hamlin Mandell, Jr., ex-'97, New Bedford,  
Mass.  
*Secretary*—Robert Cotton Saltmarsh, ex-'16, Y. M. C. A. Building,  
New Bedford, Mass.

## WESLEYAN ALUMNI ASSOCIATION OF SPRINGFIELD.

*President*—Addison Loomis Green, '85, Holyoke, Mass.  
*Secretary*—Everett William Clark, ex-'14, 122 Chestnut St.,  
Springfield, Mass.

## WESLEYAN UNIVERSITY ASSOCIATION OF ST. LOUIS.

*President*—J. Collett Frost, '14, St. Louis, Mo.  
*Secretary*—Guy Rogers Turner, '19, Northside Y. M. C. A.,  
St. Louis, Mo.

## CALENDAR.

1923.

- Sept. 20. Thursday—Matriculation Service.  
Sept. 21. Friday, 7:50 A. M.—First term begins.  
Oct. 10. Wednesday — Last day for applying for Senior honors.  
Nov. 28. Wednesday, 12:00 M.— Thanksgiving vacation begins.  
Dec. 3. Monday, 7:50 A. M.—Thanksgiving vacation ends.  
Dec. 19. Wednesday, 5:00 P. M.—Christmas vacation begins.  
Last day for applying for winter special examinations.

1924.

## CHRISTMAS RECESS.

- Jan. 3. Thursday, 7:50 A. M.—Christmas vacation ends.  
Jan. 28. Monday—Mid-year examinations begin.  
Feb. 6. Wednesday—Mid-year examinations end.  
Feb. 11. Monday—Second half-year begins.  
Feb. 14. Thursday — Last day for handing in Junior Exhibition essays.  
Feb. 15, 16. Friday, Saturday—Introduction days.  
Mar. 17. Monday — Last day for applying for Junior honors.  
Mar. 18. Tuesday—Junior Exhibition.  
Apr. 16. Wednesday, 6:00 P. M.—Easter vacation begins.  
Last day for applying for spring special examinations.

## SPRING RECESS.

- Apr. 24. Thursday, 7:50 A. M.—Easter vacation ends.  
May 5. Monday—Last day for presenting prize essays.  
May 30. Friday—Memorial Day, a holiday.  
May 31. Saturday—Last day for completing work for the Master's degree, and for departmental honors.  
June 2. Monday—Annual examinations begin.  
June 11. Wednesday—Annual examinations end.  
June 12. Thursday—Prize declamation contest.



- June 13. Friday afternoon—Class Day exercises; social receptions by the college fraternities.
- June 13. Friday evening—Fraternity reunions.
- June 14. Saturday morning—Meeting of the Board of Trustees.
- June 14. Saturday morning—Meeting of the Alumni Council.
- June 14. Saturday evening—Class reunions.
- June 15. Sunday morning—Baccalaureate sermon.
- June 15. Sunday evening—University sermon.
- June 16. Monday morning—Annual meeting of the Phi Beta Kappa Society.
- June 16. Monday morning—COMMENCEMENT.
- June 16-21. Examinations of the College Entrance Examination Board.

#### VACATION OF THIRTEEN WEEKS.

- Sept. 12, 13, 15. Examination of candidates for admission.
- Sept. 16. Tuesday—Fall special examinations begin.
- Sept. 16. Tuesday—Registration of Freshmen.
- Sept. 17. Wednesday—Registration of three upper classes.
- Sept. 18. Thursday, 9:00 A. M.—Matriculation Service.
- Sept. 19. Friday, 7:50 A. M.—First term begins.
- Oct. 8. Wednesday—Last day for applying for Senior honors.
- Nov. 27. Thursday—Thanksgiving Day, a holiday.
- Dec. 20. Saturday, 12:00 M.—Christmas vacation begins.

1925.

#### CHRISTMAS RECESS

- Jan. 6. Tuesday, 7:50 A. M.—Christmas vacation ends.
- Jan. 26. Monday—Mid-year examinations begin.
- Feb. 4. Wednesday—Mid-year examinations end.
- Feb. 9. Monday—Second half-year begins.
- Apr. 8. Wednesday, 6:00 P. M.—Easter vacation begins.

#### SPRING RECESS.

- Apr. 16. Thursday, 7:50 A. M.—Easter vacation ends.
- June 1. Monday—Annual examinations begin.
- June 10. Wednesday—Annual examinations end.
- June 15. Monday morning—COMMENCEMENT.

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